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FINAL REPORT

STRUCTURAL RESPONSE TO SONIC BOOMS

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FEBRUARY 1965

OFFICE OF DEPUTY ADMINISTRATOR FOR SUPERSONIC TRANSPORT DEVELOPMENT FEDERAL AVIATION AGENCY

WASHINGTON, D.C.

Prepared Under Contract FA-64-AC-6-526 by Andrews Associates, Inc. and Hudgins, Thompson, Ball and Associates, Inc. (A Joint Venture) Oklahoma City, Oklahoma

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February 5, 1965

FINAL REPORT - VOLUME 2 (APPENDIX)

OF

ARCHITECTURAL AND ENGINEERING SERVICES

FOR

STUDIES OF STRUCTURAL RESPONSE TO SONIC BOOMS IN CONNECTION WITH THE SUPERSONIC TRANSPORT RESEARCH PROGRAM

FOR

THE FEDERAL AVIATION AGENCY

ANDREWS ASSOCIATES, INC. and HUDGINS, THOMPSON, BALL & ASSOCIATES, INC.

(A Joint Venture)

1330 Classen Building - Oklahoma City, Oklahoma 73106

Contract No. FA-64-AC-6-526

STRUCTURAL RESPONSE TO SONIC BOOMS

VOLUME 2 - APPENDIX

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Excerpts From

REPORT OF ARCHITECT & ENGINEER SERVICES

for

STUDIES OF SONIC BOOM

INDUCED DAMAGE

for the

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

LANGLEY RESEARCH CENTER

LANGLEY STATION

HAMPTON, VIRGINIA

CONTRACT NAS1-1166

Submitted by

CLARK, BUHR & NEXSEN Architects & Engineers 208 Midtown Building Norfolk, Virginia

June 25, 1962

SECTION I. FOREWORD

In August of 1961 the firm of Clark, Buhr and Nexsen, Architects and Engineers, under contract with the National Aeronautics and Space Administration, Langley Research Center, began preliminary conferences with representatives of National Aeronautics and Space Administration, the U. S. Air Force, the Federal Aviation Agency, and representatives of the National Opinion Research Center (University of Chicago) also under contract with National Aeronautics and Space Administration to establish criteria for structural investigation of sonic boom damage. Also, representatives of Clark, Buhr and Nexsen researched existing data compiled as a result of sonic boom damage complaints against the Government.

The St. Louis, Missouri area was selected as the site for test flights of supersonic aircraft and field investigations of damage to structures by the sonic boom overpressures. Test flights were flown during the periods of November 6 through 12, 1961 and January 3 through 6, 1962. Representatives of Clark, Buhr and Nexsen were in the target area during the periods of the test flights. An architect, a structural engineer, and a mechanical engineer comprised the investigating team.

The phase of the overall test program that is covered by this report constitutes research of typical sonic boom claims, investigation of alleged damage to structures caused by the specific test flights, compilation and organization of field data into a comprehensive report.

SECTION II. FIELD INVESTIGATIONS

During the two test periods of November 6 through 12, 1961 and January 3 through 6, 1962, a total of seventeen supersonic flights were accomplished in a predesignated flight corridor by test aircraft scheduled by National Aeronautics and Space Administration. The aircraft participating were of two types; one was a B-58 supersonic bomber, and the other was a F-106 fighter aircraft, both supplied and piloted by the U. S. Air Force.

Following is a log of official test flights indicating date, time of day, type of aircraft, altitude, and speed. These test flights did not vary from the predetermined flight corridor by more than one mile.

LOG OF SONIC BOOM TEST FLIGHTS

Date	Time of Day CST	Aircraft Type	Altitude Ft.	Mach No•	
6 Nov 1961	2304	F-106	41,000	2.0	
6 Nov 1961	2316	F-106	41,000	2.0	
8 Nov 1961	1105	B-58	41,000	1.5	
8 Nov 1961	1128	B-58	41,000	1.5	
9 Nov 1961	1258	F-106	41,000	2.0	
9 Nov 1961	1313	F-106	41,000	2.0	
10 Nov 1961	1759	F-106	41,000	2.0	
11 Nov 1961	0027	B-58	41,000	1.5	
11 Nov 1961	0050	B-58	41,000	1.5	
12 Nov 1961	0501	F-106	41,000	2.0	
12 Nov 1961	0518	F-106	41,000	2.0	
12 Nov 1961	1016	B-58	41,000	1.5	
12 Nov 1961	1041	B-58	41,000	1.5	
3 Jan 1962	2207	B-58	35,000	1.5	
3 Jan 1962	2231	B-58	35,000	1.5	
6 Jan 1962	2209	B-58	31,000	1.5	
6 Jan 1962	2228	B-58	31,000	1.5	
					,

St. Louis had been subjected to frequent sonic boom occurrences during the four months preceding and simultaneously with the test flights. Prior to the scheduled test flights, the Air Force policy had been followed, and the populace was indoctrinated as to cause, purpose, and responsibility related to sonic booms. Newspaper, radio, television, and personal appearances by P.I.O. personnel were used to acquaint the residents with the phenomenon of sonic booms and that damage

to buildings can be expected. They were advised of whom to call if damage was sustained and that the Air Force would accept responsibility for sonic boom caused damage.

The test flights were held confidential; however, the area had been thoroughly saturated by sonic boom occurrences and was familiar with damage reporting procedures.

The Judge Advocate General's office at Scott Air Force Base handled sonic boom complaints for the test flights. Scott Air Force Base is located in Illinois approximately 40 miles from St. Louis. Telephoned complaints entailed a long distance phone call. Personnel at the base recorded the complaints on previously prepared forms. A copy of the form is appended to this Section as Exhibit No. 1.

An investigation team, comprised of an Air Force legal officer, a photographer, and an architect or engineer, was relayed the complaint information from the Base so as to arrive at the scene of reported damage as soon as possible. Most complaints, however, were investigated the day following due to the time of the night flights and time lag of complaints.

Clark, Buhr and Nexsen investigation teams made a total of 84 investigations of reported damage from sonic booms specifically related to the scheduled flights. Investigation report forms were used by the architect or engineer to obtain pertinent data on the structure. The form, supplemented by photographs of the reported damage, were used as a basis of analysis. A copy of the form is appended to this Section as Exhibit No. 2.

SECTION III. COMPILATION OF DATA

The data acquired during the field investigations has been analyzed, compiled, and presented on the group of bar graphs that follow. The location and credibility of reported damage have been pletted on area maps for each flight and on a composite map which follow the bar graphs. No credibility has been established for investigations by any source other than by National Aeronautics and Space Administration sponsored investigations.

Figure No. 1 and No. 1A reflects the different types of construction of the 84 structures investigated. The following list shows the breakdown:

No.	% of Total	
Frame	25	29.8
Brick Veneer	26	31.0
Brick Wall	24	28.6
Block	5	5.9
Other	4	4.7

Figure No. 2 and No. 2A reflects the number of stories to structures investigated. The following list shows the breakdown:

No.	% of Total	
One Story	34	40.5
Two Story	43	51.2
Three Story	6	7.2
Other	1	1.1

Figure No. 3 and No. 3A reflects the sub-floor conditions of structures investigated. The following list shows the breakdown:

No. Inv	% of Total	
With Basement	50	59•5
Without Basement	21	25.0
Not available	13	15 .5

Figure No. 4 and No. 4A reflects the type of usage of structures investigated.

No. I	nvestigated	% of Total
Residential	68	81.0

(Cont'd)	No. Investigated	% of Total	
ResidComm. Commercial Garage-Utility	8 7 1	9.5 8.9 1.1	

Figure No. 5 and No. 5A reflects the age of structures investigated.

	No. Investigated	% of Total
1-5 years	17	20.2
6-10 years	7	8.3
11-20 years	7	8.3
21-40 years	19	22.6
41-60 years	19	22.6
60-over	15	18.0

Figure No. 6 and No. 6A reflects the interior condition of structures investigated.

	No. Investigated	% of Total
Good	26	31.0
Fair	32	38.0
Poor	26	31.0

Figure No. 7 and No. 7A reflects the evidence of settlement in structures investigated.

	No. Investigated	% of Total	
Settlement	49	58.4	
No Settlement	18	21.4	
Not Available	17	20.2	

Figure No. 8, 8A, 9, and 9A reflect the type of damage reported to structures investigated.

	Number Investigated	% of Total	Valid No. %	No. %
Damage structural Plaster Glass - 1 pane Glass - 2 pane Glass - 3 or more pan	5 34 16 8 es 1	6.0 40.3 19.0 9.5	1 20.0 6 17.5 5 31.2 4 50.0 1 100.0	4 80.0 28 82.5 11 68.8 4 50.0 0 0.0

(00=0 =)	lumber stigated	% of Total	Valid No. %	Doul No.	btful %	
Cracked tiles & fixtures Broken due to fall	4 4	4.8 4.8	2 50.0 4 100.0	2	50.0	
Broken objects Appliances	i 4	1.2 4.8	1 100.0	0	0.0	
Plaster and glass	6	9.8	3 50.0	3	50.0	
Plaster and furnishings	1	1.2	0 0.0	1	100.0	

	No. Investigated	% of Total
Valid	28	33.3
Doubtful	56	66.6

In an effort to keep the statistics as accurate, simple, and easy to interpret as possible, only valid and doubtful categories are used. Possibly valid cases are considered valid.

To clarify the phraseology used to describe the opinions of the investigators, the list and intended meanings of words and phrases used to describe opinions follows:

Valid. In the opinions of the investigators the damage was probably due to, or was triggered by sonic boom overpressures.

Possibly Valid. In the opinions of the investigators the damage may or may not have been caused by sonic boom overpressures. The damage in this case appeared recent and the structure appeared sound and well maintained. While there was no apparent cause for the damage, it was of the type that could be caused by a sonic boom.

Doubtful. In the opinions of the investigators the damage was not due to sonic boom overpressures. In this case a definite cause other than sonic boom was established for the damage claimed, or the damage was not of a type expected to be caused by a sonic boom.

Cognizance should be taken of the fact that the investigations revealed many situations that could not be accepted or denied without question. The judgment of the trained architect or engineer served as the only basis for decision in the possibly valid cases.

Each sonic boom test flight is plotted separately on a map along with the locations of each complaint received for that specific flight. (See figures 11 through 20). Symbols on the map indicate

the credibility, and if investigated by the National Aeronautics and Space Administration engineering investigation team or by the Air Force. The time of flight, type, altitude, and mach number of the aircraft, and flight path also are indicated on the map. A composite map, representing all damage complaints attributed to the 17 sonic boom test flights, is also included.

Since the sonic boom test flights were in most cases run in groups of two, one from 15 to 30 minutes after the first, plottings were made for both flights as one, instead of two separate flights. Persons reporting sonic boom damage to structures often referred to the time of occurrence as from 11:00 - 11:30; thus the reason for considering the two separate flights as one.

From observing the maps and the following table, it is seen that the area over which the aircraft flew and up to 4 miles from ground zero was highly industrial and commercial. These structures for the most part are sturdy but old. Many have been remodeled to come up to par with today's newer buildings, while others are old and in poor condition. In the latter group, any damage a sonic boom would cause is likely to go undetected due to numerous plaster and window cracks that already exist. Also persons notice damage in their own homes more so than they would in an industrial or commercial structure.

The area of greatest investigated complaints was from 4 to 6 miles from the flight track. This is a very old section, and the population density is large.

The zone 6 to 8 miles from the flight track was the next largest for investigated complaints.

In the 8 to 16 mile zones from the flight track the houses are spaced further apart, are newer, and are in a better state of repair than in the 0 to 8 mile zones.

The area to the right of the flight path, looking north on the composite map, has fewer investigated complaints than on the left of the flight path. This area is highly industrial with a low population density. The residences that do exist on the E. St. Louis side of the Mississippi River, from the flight track to 6 miles, are old and run down. Thus any damage caused by a sonic boom would often go unobserved due to numerous cracks, etc., that already existed in these structures.

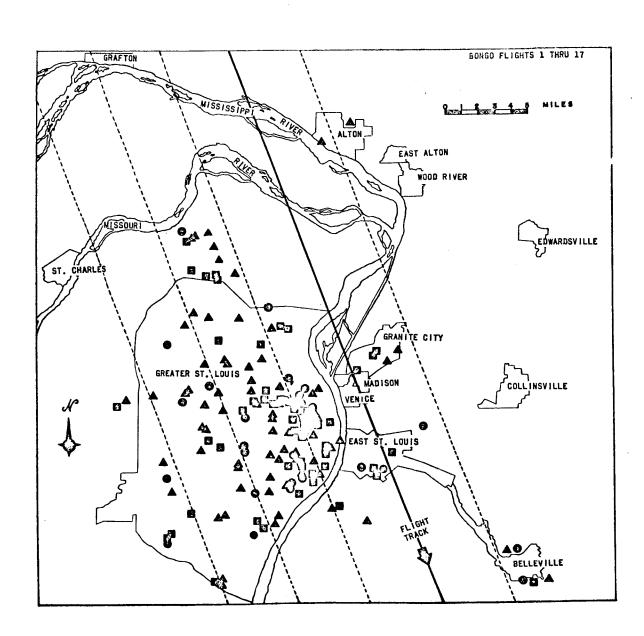
COMPLAINTS PER ZONE

To the Left of Flight Path Looking North		Investigated by										
Miles from Flight Path	Air Force	CB&N Legitimate	CB&N Doubtful	Total								
0 - 2 2 - 4 4 - 6 6 - 8 8 - 10 10 - 12 12 - 14 14 - 16	0 10 22 16 12 6 3	4 6 5 3 1 1	2 10 22 6 4 0 4	6 26 49 27 19 7 8								
To the Right of Flig Path Looking North 0 - 2 2 - 4 4 - 6 6 - 8 8 - 10		0 1 2 0	4 0 1 0	4 4 6 1								

The maximum overpressure occurs at a distance of O to 2 miles from the flight track and, theoretically, should cause the largest amount of damage. The overpressure will generally decrease with distance from the flight track and will generally increase with lower aircraft altitude. Refer to following table of Sonic Boom Overpressures prepared by National Aeronautics and Space Administration.

It is interesting to note that the larger and heavier B-58 flying at the same altitude and at a lesser supersonic speed than the F-106, caused a greater overpressure from 0 to 10 miles from the flight track, and an overpressure approximately equal from 10 to 16 miles from the flight track.

The maps of the individual flights indicate that more damage investigations were made for the B-58, flying at 35,000 feet, than for any of the other flights.



LEGEND

- O CLARK, BUHR AND NEXSEN INVESTIGATION CONSIDERED VALID
- _ CLARK, BUHR AND NEXSEN INVESTIGATION CONSIDERED DOUBTFUL
- A U.S. AIR FORCE INVESTIGATION

SECTION IV. DISCUSSION OF RESULTS

The results of the investigations of the sonic boom test flights and conferences with cognizant and interested parties have yielded several pertinent observations which are discussed briefly hereinafter.

A. From the field investigations and analyses, it is apparent that the reported damage normally occurs at stress points within a structure. Built-in stresses due to drying out of green lumber, hydration of cementious materials, and poor quality of workmanship create a potential failure of building materials. This potential exists in varying degrees in all structures, and failure can be triggered at any time. The overpressure of a sonic boom has the capability of this triggering action, as has passing vehicular traffic, thunder storms, heavy falling objects, and average household operations. Types of damage are specifically analyzed as follows:

1. Plaster.

The overpressures from the scheduled supersonic test flights described herein were not of a sufficient magnitude to cause damage to sound plaster areas. It is conceded that the experienced overpressures have the capability of triggering cracking or complete failure at a stressed portion of plaster and/or causing an existing crack to become more extensive. Also, portions of plaster that are weakened by wetting or improper installation, or portions where the lathe has deteriorated were observed to have fallen. This condition possibly could have been triggered by a person walking on the floor above the weak portion of plaster. Generally, where fallen plaster was observed, there were judged to be other contributing factors and, therefore, the damage was considered to be in the doubtful category. Plaster cracking was found in some cases where no contributing factors were judged to exist and thus the damage was considered to be valid or possibly valid.

2. Glass. (Windows, show windows, and storm windows.)

The overpressures from the scheduled supersonic test flights described herein were not of a sufficient magnitude to cause good quality, properly installed glass to break. It is conceded that overpressures have the capability of triggering cracking or breaking of glass that was stressed by improper installation, building settlement, previous damage or poor quality. Often glass cracks and breakage were judged to be associated with stress concentrations. Such stress concentrations may have been improper installation of glaziers points, glazing beads, faulty puttying, or to a flaw in the glass itself. A window set with no provision for flexing is more likely to crack than a window set in mastic which can deflect with the overpressure and thus not experience the stresses that a rigidly installed window would.

In some instances the structures investigated had an inner window cracked, whereas the storm window was not damaged. The sonic boom overpressure possibly caused the storm window to deflect, compressing the air in the space between the window and storm window to transmit the impact force to the inner window. The inner window, which is generally set more rigid than the storm window, and is not as flexible, could conceivably crack.

3. Furnishings.

In several complaints persons claimed that the sonic boom had caused damage to movable furnishings in their homes. Some persons claimed broken vases, fallen pictures, and fallen wall racks. In observing the above claimed damage, it was noticed that in most cases the fallen objects were insecurely attached to the wall. Any jolt or jar caused by persons in the immediate area of the fallen object could have caused the objects to fall. Objects which fell from shelves or window sills were obviously placed very close to the edge of the shelve or sill. Again, any jolt or jar made in the immediate area could cause the objects to fall.

4. Cracked Water Closets.

On observing several cracked water closets, it is our opinion that the sonic boom had no effect on the cracking of these objects.

5. Appliances.

The appliances that were claimed to be damaged as a result of test flight sonic booms were television sets and hot water heater thermostats.

On several occasions television sets were claimed to have failed as a result of a sonic boom. Upon investigating, it was learned that antenna, both "rabbit ears" and roof top type, had fallen from their normal position.

The thermostats on the hot water heaters failing could not be attributed to sonic booms.

6. Structural.

Since the design of walls and roofs of buildings are based on building code requirements requiring capability of resisting a minimum of 20 pounds per square foot, wind load, and the test flight overpressures were relatively small (under 3 psf), it is improbable that any structural damage to buildings that were properly constructed and well maintained was a result of sonic booms. The overpressures

could possibly have triggered cracking at a stressed condition in a structure and/or caused an existing crack to open up or grow longer.

B. Representatives of Clark, Buhr and Nexsen observed effects of sonic boom at approximately ground zero located at a likely spot in a new supermarket parking lot. The store had six large show windows of 1/4-inch thick plate glass set in aluminum frames. Window size was approximately 9 feet by 12 feet each. These windows deflected with the wind which did not exceed 20 mph and very noticeably deflected with automotive and truck traffic from the street approximately 150 feet away.

Representatives of Clark, Buhr and Nexsen observed the contrails of approaching aircraft which passed almost directly overhead. The sonic boom overpressure caused the show windows to deflect in unison, and they reverberated for approximately 3 seconds. It was interesting to observe, however, that the visible deflection did not exceed by very much the deflection caused by trucks on the highway.

C. It is the opinion of the investigators that the public information policy of the Air Force caused a high percentage of complaints. In the area around Norfolk, Virginia, booms occur with somewhat less frequency than in the St.Louis area, but only 5 complaints have been reported to the Fifth Naval District.

This indicates that the publicity by the Air Force caused an unusual number of complaints to be reported. This also allows persons who want to report doubtful claims to have an established basis for Government responsibility.

Some persons reported damage with no basis of sonic boom causation. Other persons reported damage and had no intention of making a claim. Had the publicity not been stressed, a large portion of the persons would not have complained.

<u>D.</u> As a result of at least 76 supersonic flights (including Air Force training missions and the special flights of these studies) experienced during a six month period in the greater St. Louis area of about three million people, approximately 2300 complaints have been registered. The percentage of complaints per capita are less than one tenth of one percent.

APPENDIX NO. 2

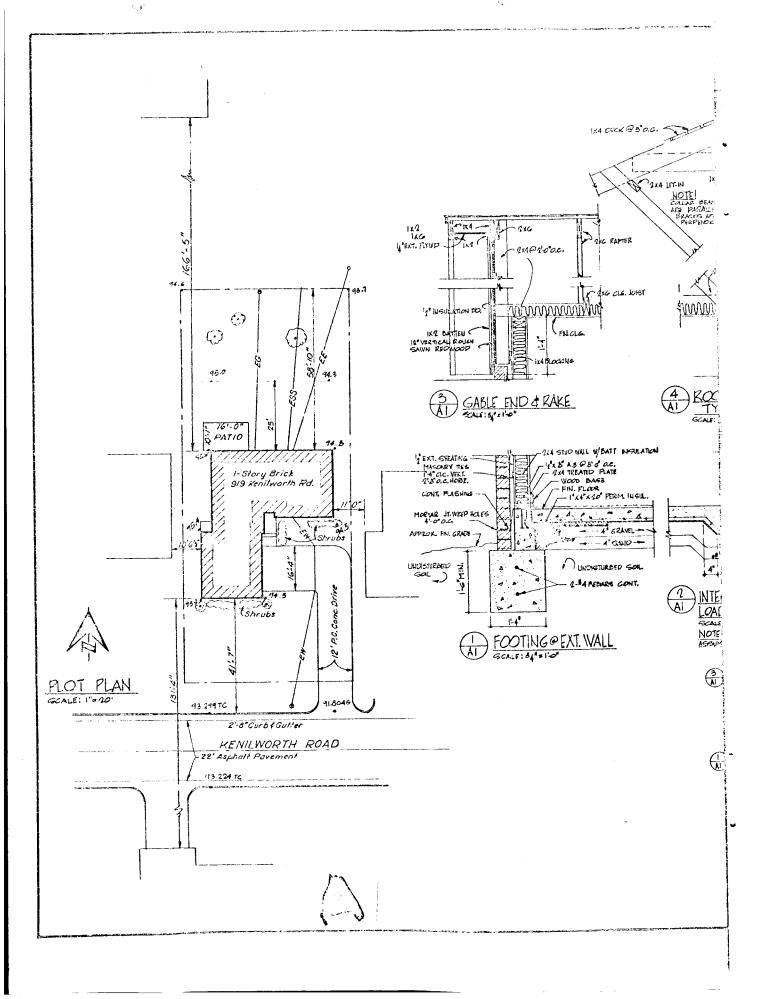
SEISMOGRAPH DISCUSSION

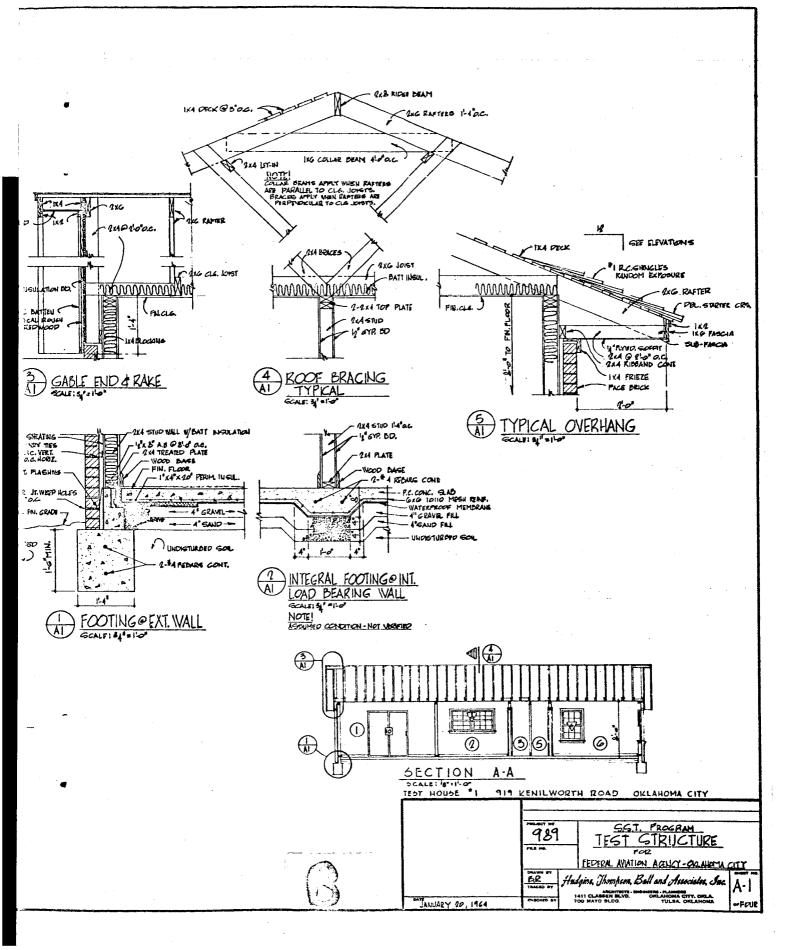
As can be seen from the seismograph recordings in the appendage, sonic boom cannot be detected by the instruments situated at St. Louis University Technical Institute. The recordings only show background noise, quarry blasts, and earthquakes.

In an explanation of the recordings to a representative of Clark, Buhr and Nexsen from personnel at St. Louis University, it was pointed out that the reason sonic booms could not be recorded by this seismograph was due to two factors, one being the sensitiveness of the instrument being too low for the high frequency booms, and the other being that the source was removed from the earth. Although nuclear explosives in the atmosphere can be detected on the seismograph, this is due to the extremely large magnitude of the explosion. Sonic booms have also been reported, but only on more sensitive instruments than the one at St. Louis University.

Quarry blasts in some cases appear very close to sonic boom times, but persons experienced in reading the data pointed out that this deviation from the normal has a definite signature which conforms to other quarry blasts.

As pointed out by personnel at St. Louis University, quarry blasts are known to cause some structural damage in the vicinity of the quarry blast.

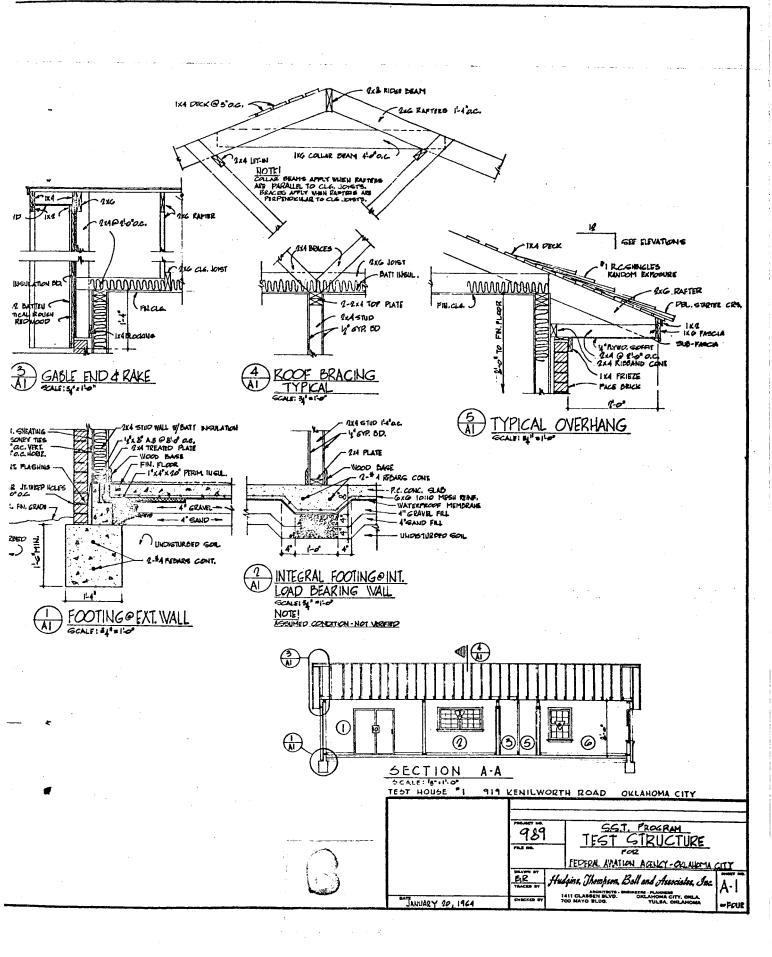




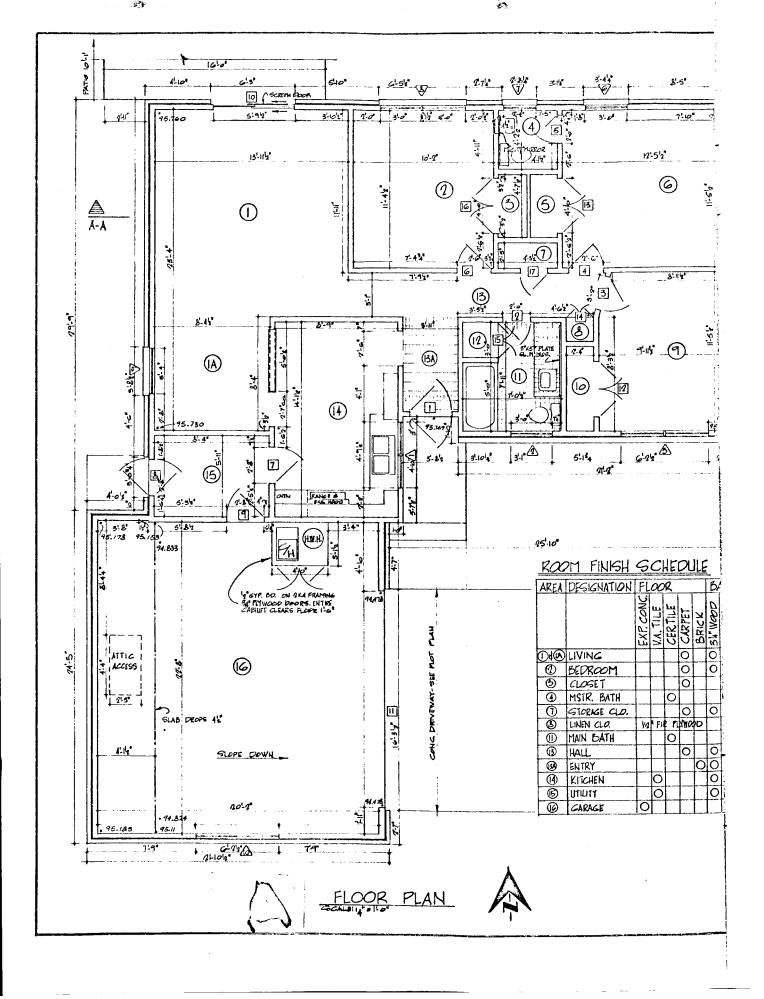
STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2

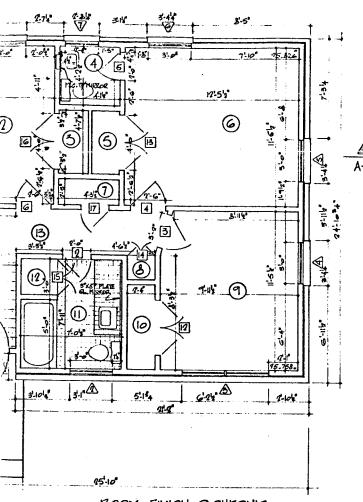
AS-BUILT DRAWINGS - SHEET 1 of 30

TEST HOUSE NO. 1 (1 of 6)



STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2
AS-BUILT DRAWINGS - SHEET 2 of 30
TEST HOUSE NO. 1 (2 of 6)





DOOR SCHEDULE

NO SIZE	TYPE	MATERIAL	COMMENTS .						
1 3°x68 x134	H.C.SLAB	W. PILE	APPLED HOLDING OUPEONS						
2 2°x65x133	H.C. SLAB	MAHOG.							
3 26x68x138									
4 76x63x132									
5 2°x62 x 132									
6 20x63 x132									
7 23/6 x13									
D 28x68 x134	N.D.549	W.PINE	VISION LITE						
9 28x63 x 138	H.C.SLAB	MAHOG.							
6°x66x1	EXTR. ALLM.	ALUMA GLAS	BY-PASSING 2 PANEL						
11 7°x 16°x 134	OVERHEAD	W. PINE	4-SECTION 21 DUE						
1 2°x63 x 133	H.C.SLAB	MAHOG	PAIR						
3 2°x63x133	11	į)	PAIR						
4 CABINET DRS.	34" PLY WD.	W.P. OR FIR							
15	H	11							
16 2° x68 x 132	H.C.SLAD	MAHOG	PAIR						
METHOD OF MESS BEMEUT									

HORIZOHTAL: JAMB TO JAMB
VERTICAL: HEAD JAMB TO FINISH FLOOR

WINDOW SCHEDULE

TYPE	MATERIAL	COMMENTS
D.H.	W. PINE	PAIR-GLITE/GLITE WI'L' MULLION
		G LITE/GLITE
		PAIR-GLITE/GLITE WILL'MULLION
		G LITE/G LITE
		ti .
		įi į
		PAIR-GLITE/GLITE W/14" MULLION
		GLITE/GLITE
FIXED	1	12 LITE
	D.H.	TYPE MATERIAL D.H. W. PINE

METHOD OF MEASUREMENT
HORIZONTALI JAMB TO JAMB
VERTICALI HEAD JAMB TO SILL

ROOM FINISH SCHEDULE

- ARE	A DESIGNATION	FL	FLOOR				BASE				WALLS				CLG.			COMMENTS
		EXP. CONC.	VA. TILE	CERTILE	CARPET	BRICK	34"11000	CEK. TILE	NONE	134 OTR. RD.	12"GYP. BD.	CER. TILE WAVE	PAINT	MEK	18 OF BD	TNN	PAPER	
	PINING				0		0				0		0		O	0		
0	BEDROOM	L			0		О				0		0		0	0		AREAG @ & O SIM.
9	CLOSET	L			0					0	0		0		0	0		BUILT IN SHOE RICK-AREAS @ 4 @ SIM.
(MSTR. BATH	_		0				0			0	0	0		0	0		4.2" HIGH WAINSCOT
0	GTORAGE CLO.				0		0				0		0		0	0		
1	LINEN CLO.	111	FI	11	YHO	ð			0		Ó		0		O	0		FILIGH JOB BUILT CAB AREA @ GIM.
0	MAIN BATH			0				0			0			0	0	0		WAINS. HT - C-COTUB, 4-TO IVDW & VANITY
13	HALL				0		0				0		0		0	0		
(B)	ENTRY					0	0				0			0	0	0		SMOOTH FACE RED PAVER BRICK IN FLOOR
<u>(4)</u>	KITCHEN	Γ	O				0				O			0	O	0		
⑤	UTILITY	Γ	0				0				0	-	0		Ō	O		
_ 0	CARAGE	O	Г			-		-	0		Ö		0		0	Ó		
-												L		Ť	ES	T	iou:	SE "1 919 KENILWORTH ROAD



PROBLEM TO SST. PROGRAM

1EST STRUCTURE

POR

FEDERAL AVIATION AGENCY - ON AHOMA CITY

B.R.

TRACES OF Hudging, Thompson, Ball and Associates, Snc.

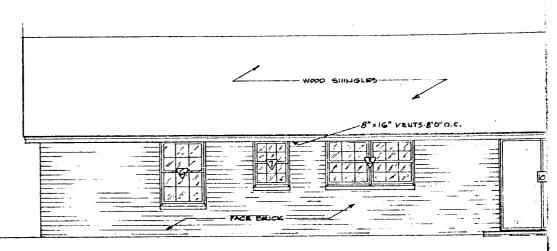
1411 CARRENTHING. THOMPSON CONTAINED TO THE A: 12

JANUARY 90, 1964 CHECKER BY TOO MAYO SLOQ.

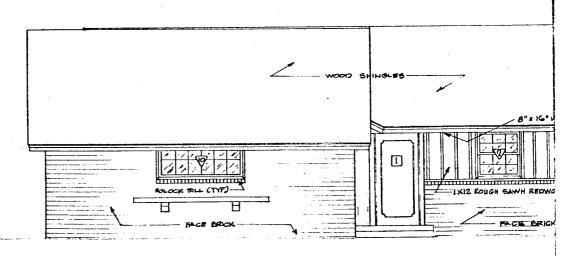
STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2

AS-BUILT DRAWINGS - SHEET 3 of 30

TEST HOUSE NO. 1 (3 of 6)

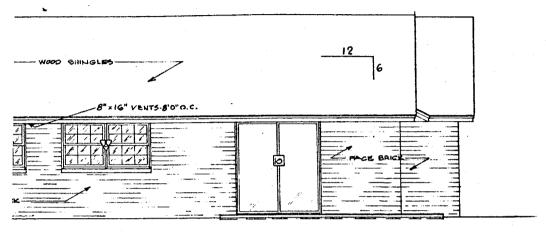


NORTH ELEVATION

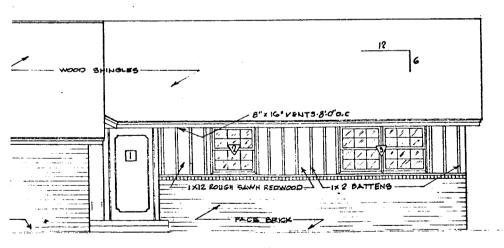


SOUTH ELEVATION





NORTH ELEVATION



DUTH ELEVATION

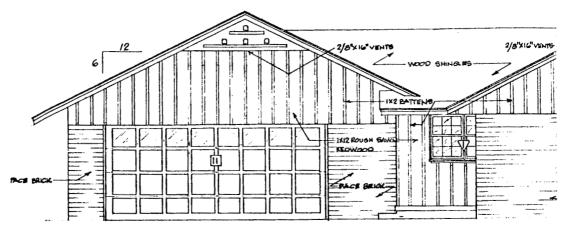


TEST HOUSE 1 919	CENILWORT	H ROAD OKLAHOMA CITY
	989	SST. PROGRAM JEST STRUCTURE FOR POR FIRMAL AMATION ASSIST: CHAHOM STR
DATE JALJUARY 20,1964	DRAWN BY B.R. TRACED BY	Hudgins, Thompson, Ball and Associates, Sac. Association - France - Association - Ass

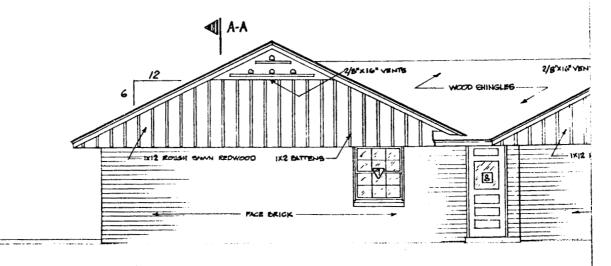
STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2

AS-BUILT DRAWINGS - SHEET 4 of 30

TEST HOUSE NO. 1 (4 of 6)

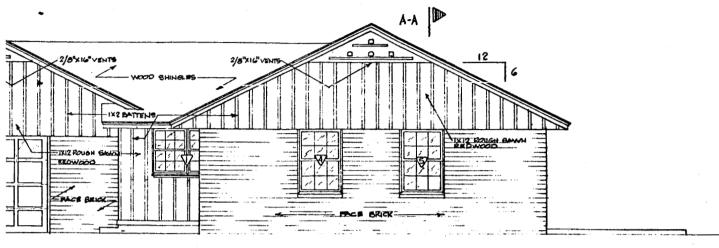


EAST ELEVATION

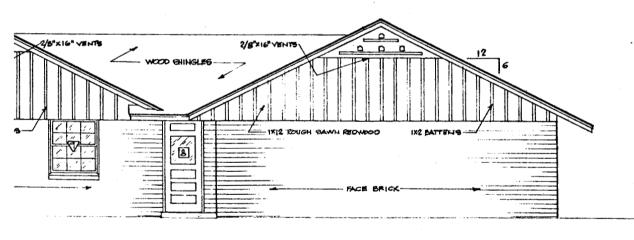


WEST ELEVATION

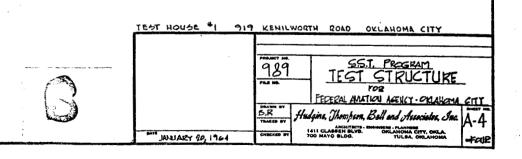




EAST ELEVATION



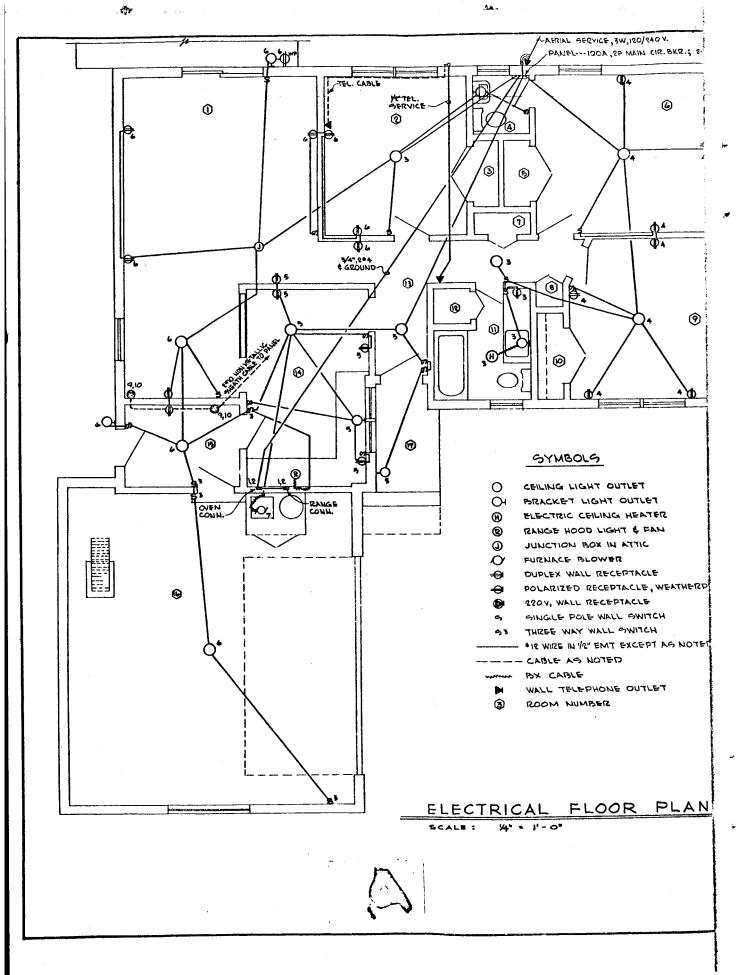
WEST ELEVATION

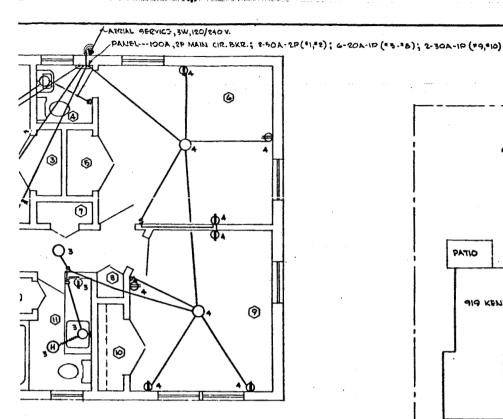


STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2

AS-BUILT DRAWINGS - SHEET 5 of 30

TEST HOUSE NO. 1 (5 of 6)





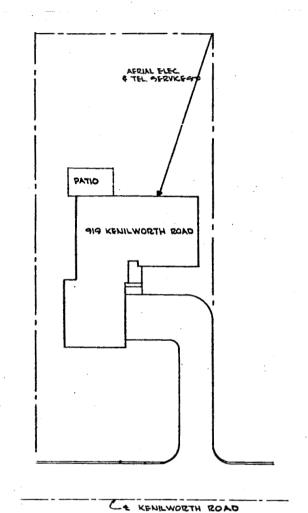
SYMBOLS

- O CEILING LIGHT OUTLET
- OH PRACKET LIGHT OUTLET
- (H) ELECTRIC CEILING HEATER
- @ RANGE HOOD LIGHT & FAN
- JUNCTION BOX IN ATTIC
- O FURNACE BLOWER
- DUPLEX WALL RECEPTACLE
- O POLARIZED RECEPTACLE, WEATHERPROOF
- 2204, WALL RECEPTACLE
- S SINGLE POLE WALL SWITCH
- S& THREE WAY WALL SWITCH
 - *IR WIRE IN VO" EMT EXCEPT AS NOTED

---- CABLE AS NOTED

mm BX CABLE

- WALL TELEPHONE OUTLET
- 3 ROOM NUMBER





SCALE: 1" = 20-0"

NOTES:

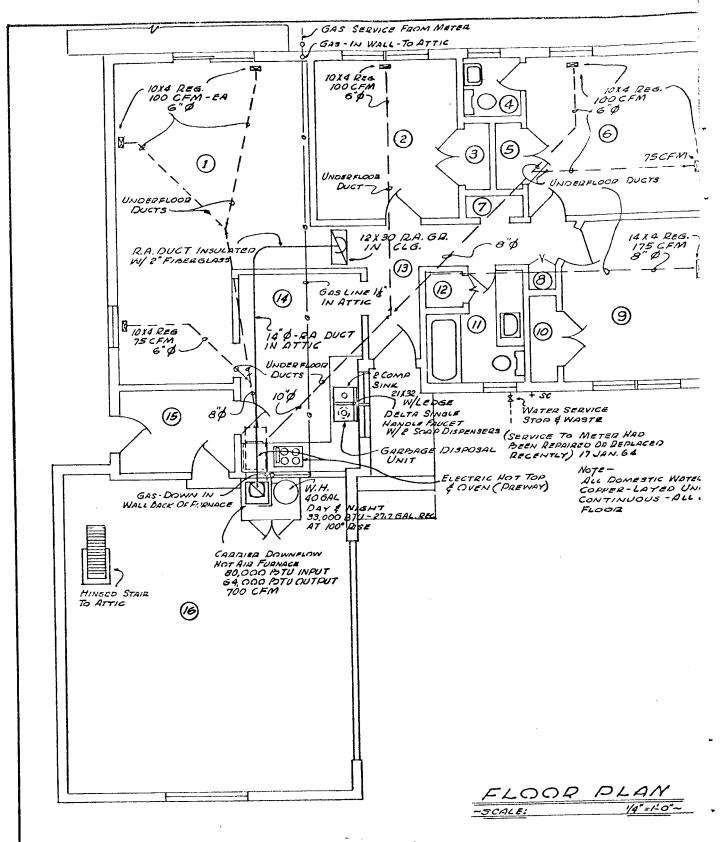
I. NUMBERS BESIDE OUTLETS INDICATE CIRCUIT NUMBER.

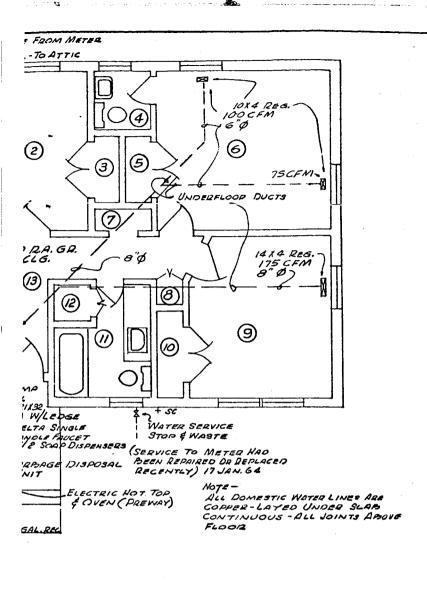
CTRICAL FLOOR PLAN

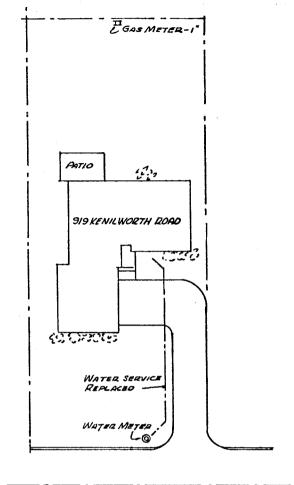


TEST HOUSE \$1 919	KENILWOR	TH ROAD OKLAHOMA CITY
	989	GGT FROSRAM TEST STRUCTURE FOR
JANUARY 10, 1964	G.L.V. TRACED BY C.R.	GONATO BLOW TULEA ORLAHOMA OMATO BLOW THE CAMPAGNATURE ON THE CAMPAGNAT ON THE C

STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2
AS-BUILT DRAWINGS - SHEET 6 of 30
TEST HOUSE NO. 1 (6 of 6)







KENILWORTH



DLOT DLAN

TEST HOUSE #1 919 KENILWORTH ROAD OKLAHOMA CITY

FLOOR PLAN

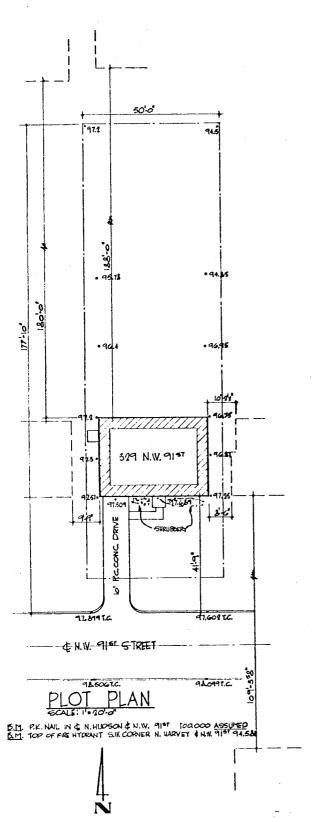


	989	GGT, PROCRAM TEST STRUCTURE
	FRE MA	FEOREN AVAILON AGENT OCLAINMA CI
	BR THACED BY	Hudgins, Thompson, Ball and Associates, Inc.
DATE JANUARY 10,1964	CHECKED BY	700 MAYO BLDG. TULSA, OKLAHOMA

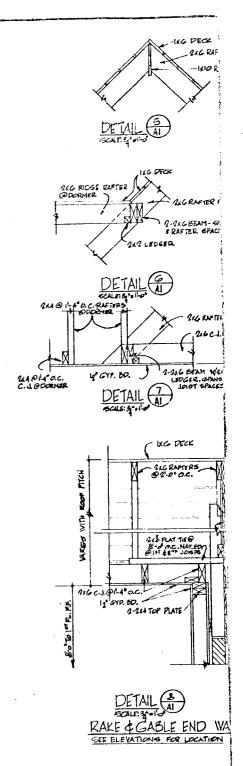
STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2

AS-BUILT DRAWINGS - SHEET 7 of 30

TEST HOUSE NO. 2 (1 of 2)

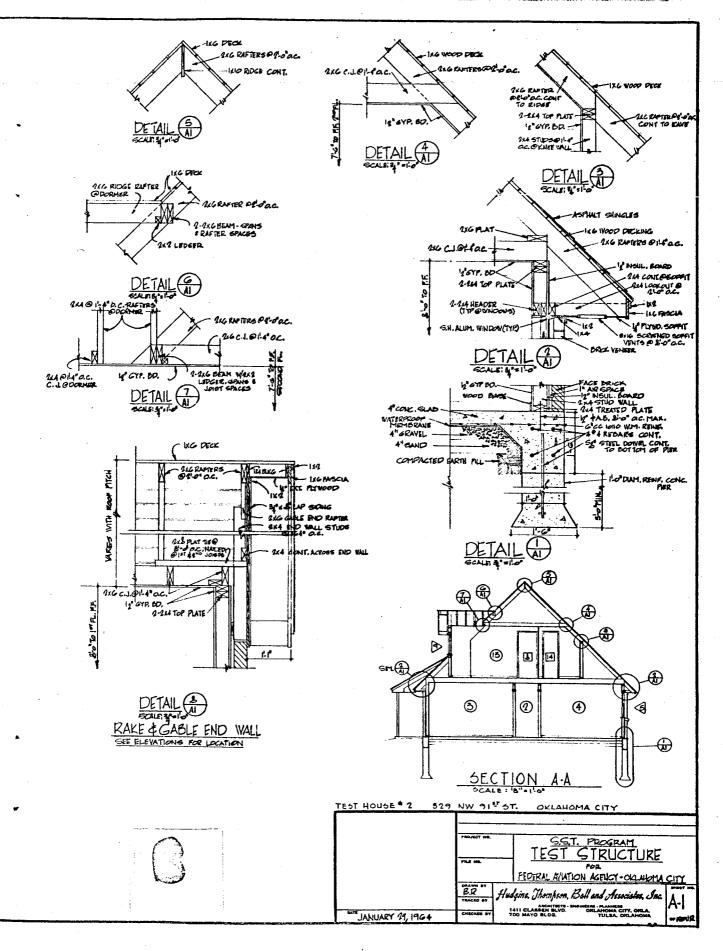


OF



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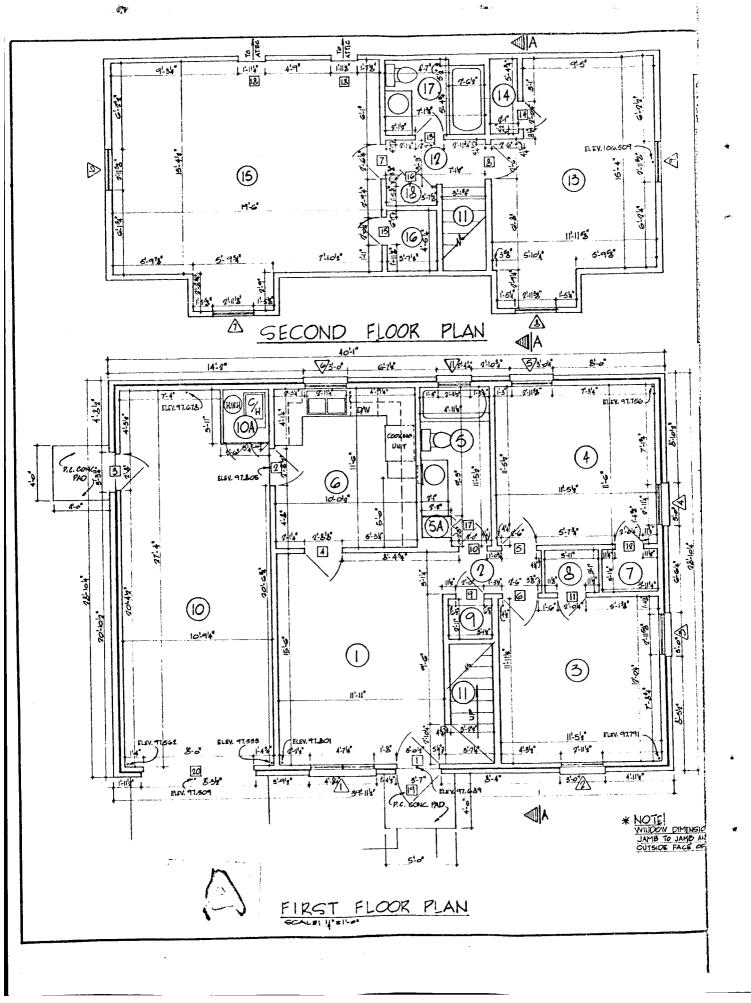


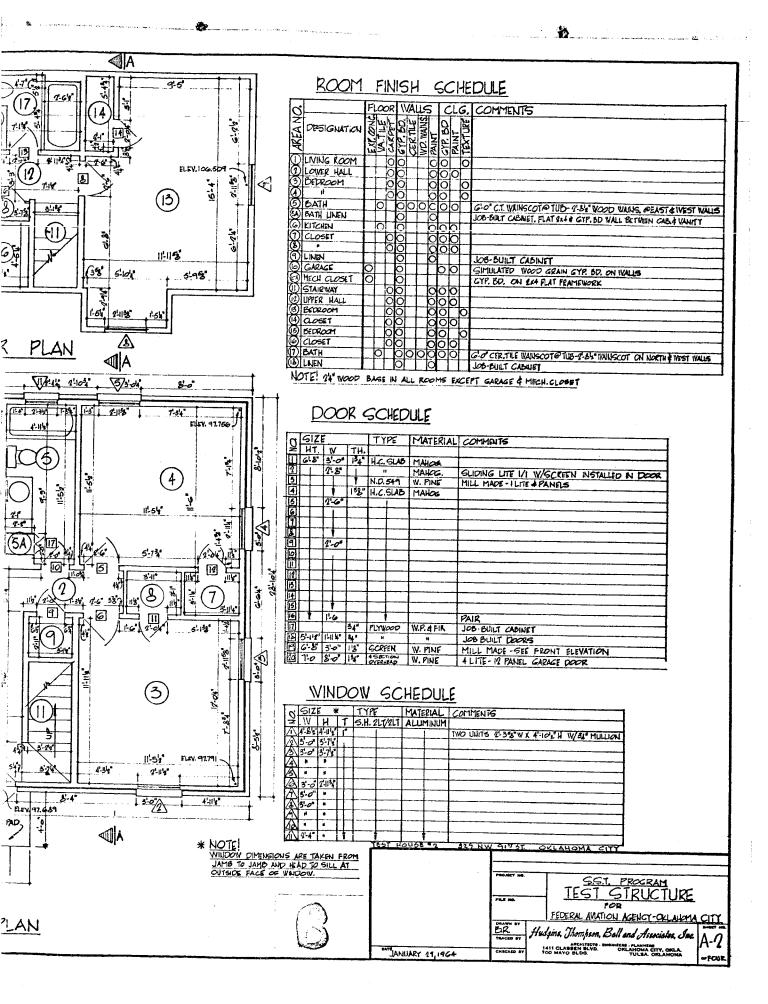


STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2

AS-BUILT DRAWINGS - SHEET 8 of 30

TEST HOUSE NO. 2 (2 of 2)



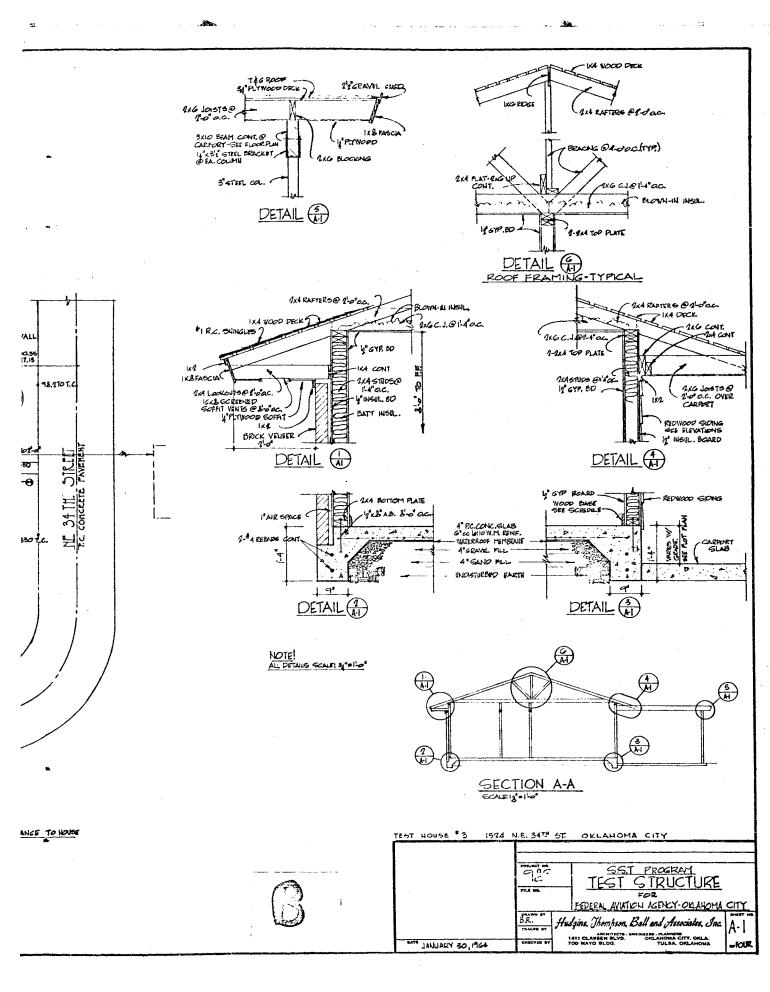


STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2

AS-BUILT DRAWINGS - SHEET 9 of 30

TEST HOUSE NO. 3 (1 of 2)



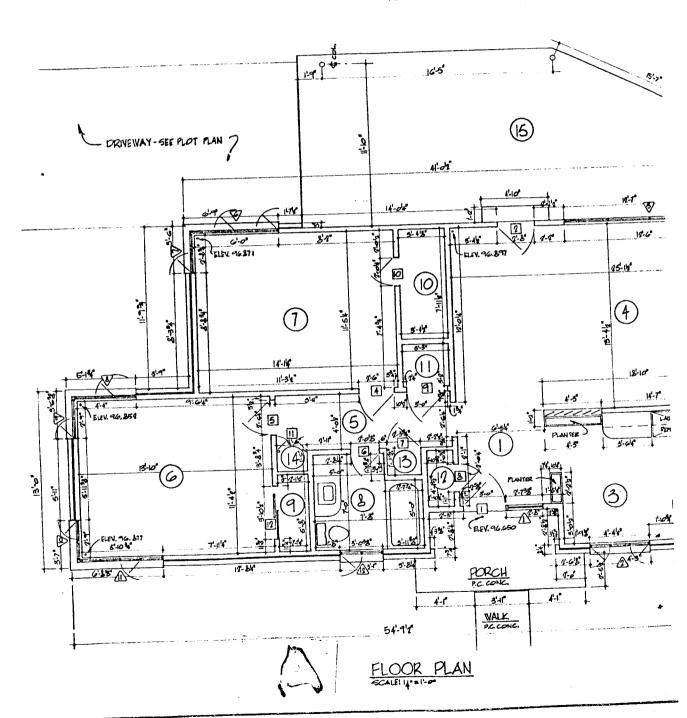


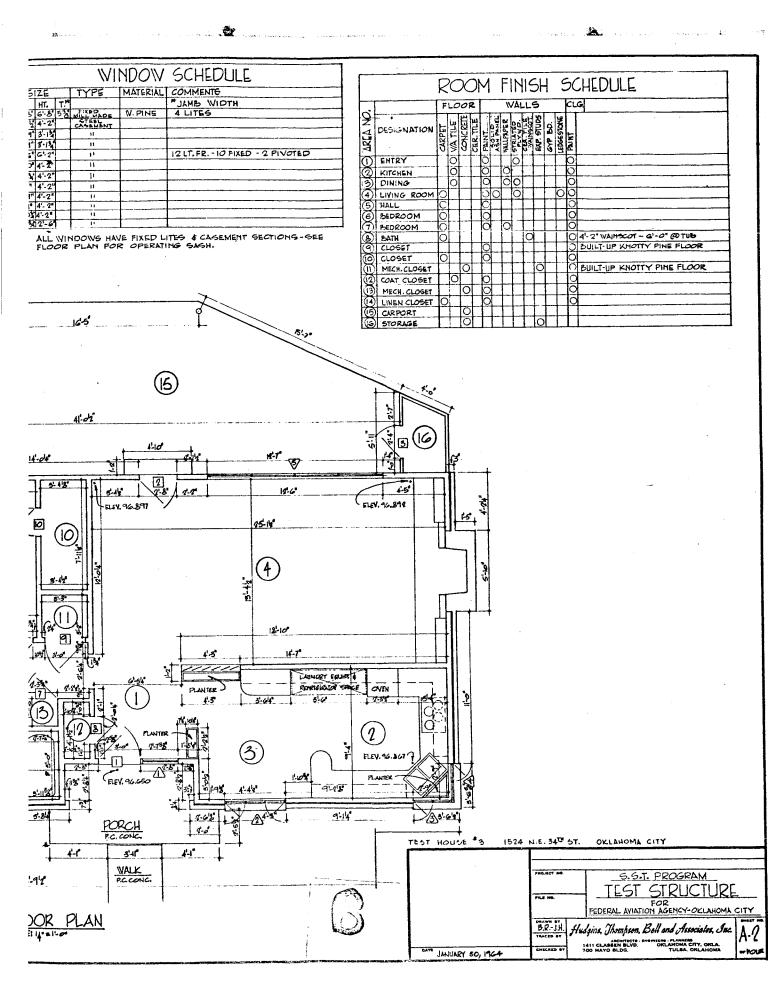
STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2
AS-BUILT DRAWINGS - SHEET 10 of 30
TEST HOUSE NO. 3 (2 of 2)

Ē				DOC)R 50	CHEDULE
-	SIZ	<u> </u>		TYPE		COMMENTS
Š	HI.	W	TH.			
im	6-8	3'-0"	134	H.C. SLAB	MAHOGANY	
2	6'-8"	2-8	13.	ч	11	RUSTIC PINE SIDING OH 2×4 FRAME
	6.0"	2'-4"	-	JOB-BUILT	<u> </u>	RUSTIC PINE SIDING OIL - TILL
34567	6-8	2'-6"	138"	H.C. SLAB	MAHOGANY	
5	13	11	"	н	11	
16	11	2'-0"	h	4	- 11	
17	6'-0"	214	-	JOB-BUILT		
Ιż	6-8	2'-0'	194	H.C. SLAB	MAHOGANY	
8	6-0	3.0	158	H.C. SLAB	MAHOGANY	
IO	6 8	2'-0"		H.C. SLAS		
	6'-0"	2'-4"	•		FIR PLYWO.	
12	6-8		1'8"	H.C. SLAB	MAHOGANY	

				WII	YDOW	SCHEDULE
-	-61	ZE	-1	TYPE	MATERIAL	COMMENTE
ğ	W.	HT.	T.*			*HTOIN GMAL*
7	2.8	68		MILL MADE	V. PINE	4 LITES
A	4 4 4 2			CASEMENT		
\$	2.4	3-13		11		
A	2'-4"	3-13		31		12 LT. FR 10 FIXED - 2 PIVOTED
3	12'-6"	6-2		11	<u> </u>	12 LT, FR 10 FIXED - 27110100
A		4-2"	1	11	l	
A	2-84	4.2	1	11		
1	4'-4"			il	<u> </u>	
1	21.41	4'-2'	•	11		
70		4'- 2		11		
		4 - 2			ļ	
73	3'0'	\$ 2'-6	1	1,		1 CECTIONS G
N/	ore!	ALI.	WI.	NDOWS HA	VE FIXED L	ITES & CASEMENT SECTIONS-S

NOTE! ALL WINDOWS HAVE FIXED LITES & CASEMENT SECTIONS - S FLOOR PLAN FOR OPERATING SASH.

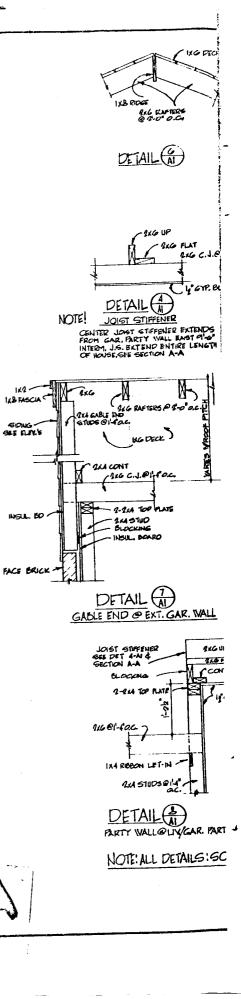




STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2

AS-BUILT DRAWINGS - SHEET 11 of 30

TEST HOUSE NO. 4 (1 of 5)



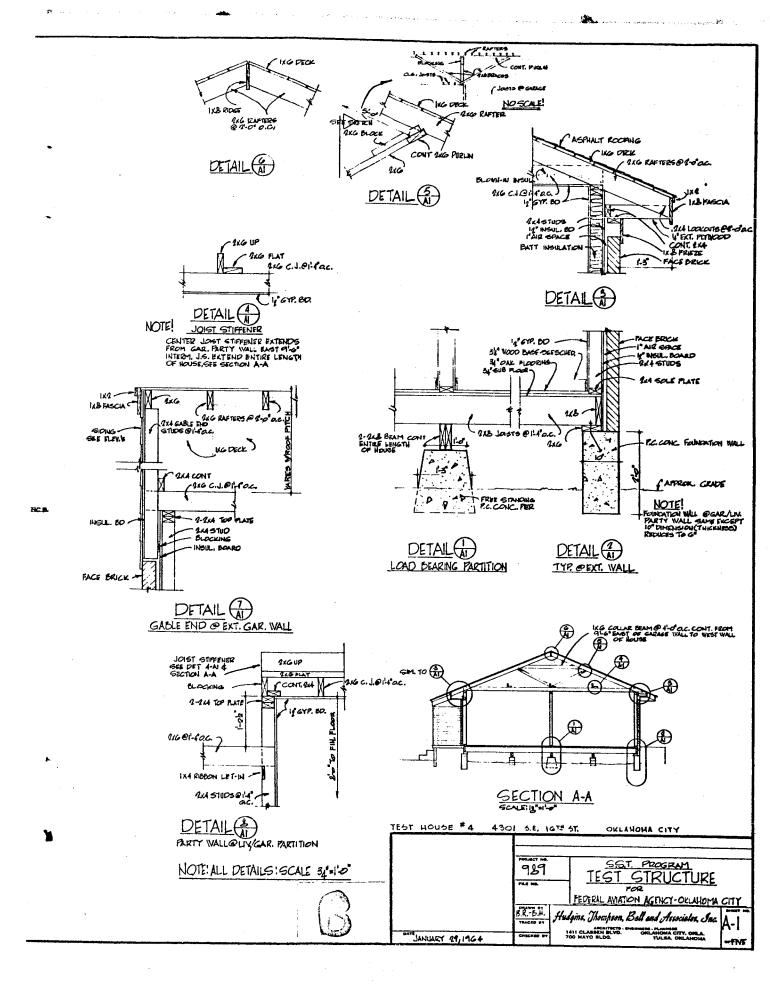
GAS METER HEDOE CLOTHES LINES REDOE SUNHYLAME ROAD STORM SHELTER THE PERCE STORY BRICK 301 SE. IGTH 471-44 SHR VE 36'-7" WATER METER 97. +25 SE. 16TH STREET EC. CONCRETE PAVEMENT

PLOT

PLAH

B.M. TOP F.H. & G.F. COR. S.E. ICTH & GUUNYLAND

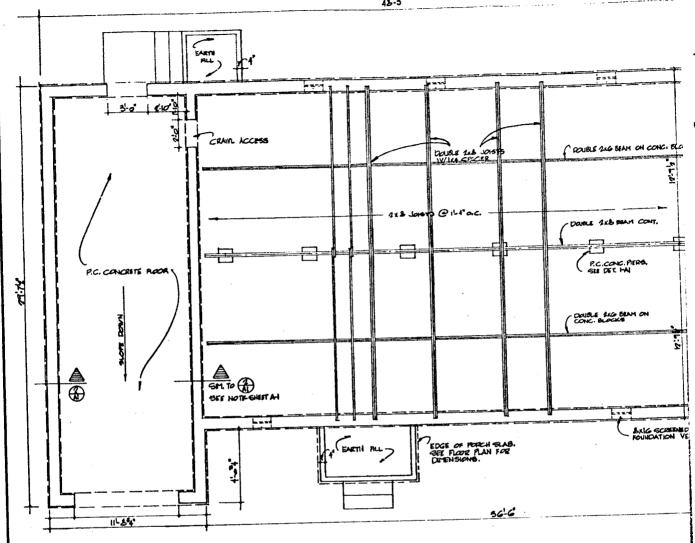
HORTH



STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2

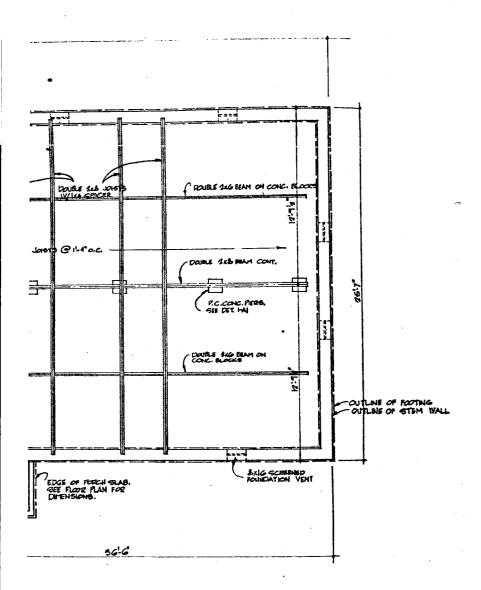
AS-BUILT DRAWINGS - SHEET 12 of 30

TEST HOUSE NO. 4 (2 of 5)



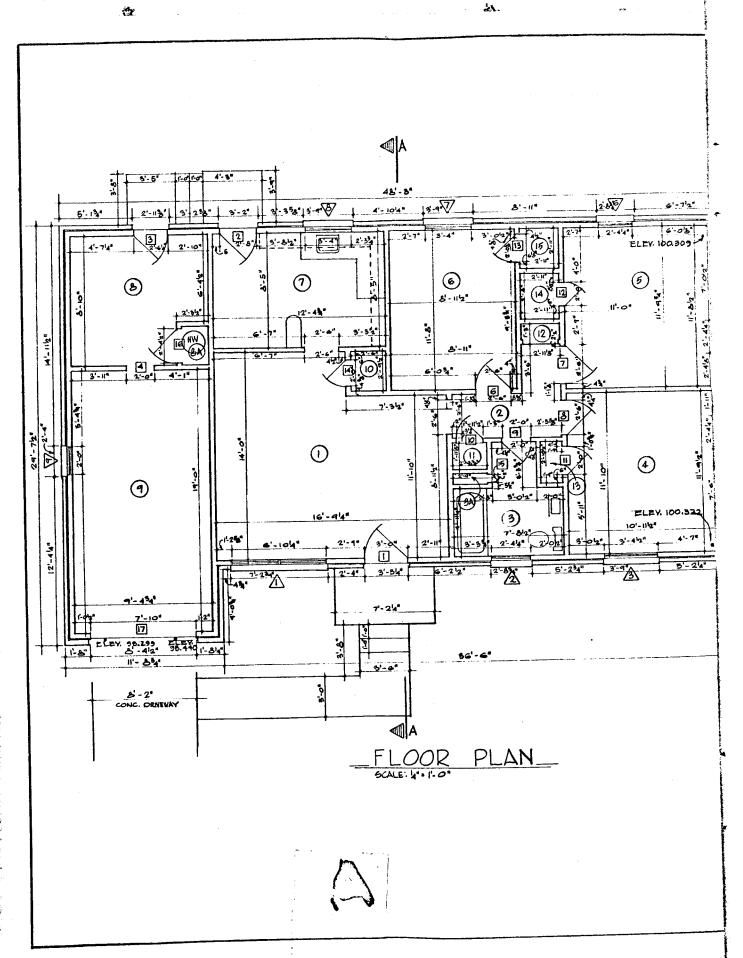
FOUNDATION & FLOOR FRAMING PLAN

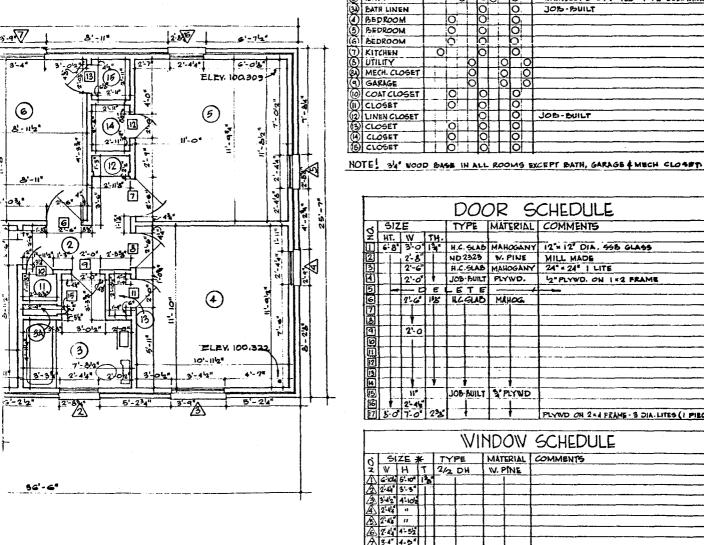




& FLOOR FRAMING PLAN

STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2
AS-BUILT DRAWINGS - SHEET 13 of 30
TEST HOUSE NO. 4 (3 of 5)





3 PLAN

		RC	\mathcal{C}	٦N	1	F	١N	1	51	4 SCHEDULE
ا. ا		FL	00	R						COMMENTS .
¥	Designation	CARPET	OAK FLKING	CER TILE	GYP BD. 6 FT.	CER.T. WASCE	EXP. STUBS	114 FOO 4149	GY 50.	
O		0		T	Ic	1		0	:	
12	HALL		Ō		To			O		
③	BATH			O	C	O		0		WAINSCOT 5'-24" @ TUB - 4'-12" ELSEWRERE
(<u>(</u>	BATH LINEN				C			0		JO5・BUILT
(4)	BEDROOM		O		Ŏ			O	!	
(3)	BEDROOM BEDROOM		0		IC	i i		0		
(6)	BEDROOM	Ţ	0	T	Ċ			O		
1(7)	KITCHEN	0	Ţ		Ю			0		
Ø	UTILITY		-		2		0		O	
lew i	MECH. CLOSET	1	L	_(뇤_	L	0	L	0	
(9)	GARAGE	ļ	L	C		1	0		0	
	COATCLOSST	L	0		C		L	0	-	
->	CLOSET	L	0		10		L	Q		
(2)	LINEN CLOSET	L .	<u> </u>	1-1-	C		<u> </u>	Ō	_	JOB-BUILT
(3)	CLOSET	L-	<u>o</u>	H	Ç		<u>L</u>	0	L	
0	CLOSET	<u> </u>	0	1	10		ᆫ	0	_	
(15)	CLOSET	1 !	Ю	1 1	IC)i	ı	Ю	1	

Γ						000	70		CUEDULE
L			_		_ 니	U	X	5	CHEDULE
Š	51	ZĮ			TY	PE	MAT	ERIAL	COMMENTS
-	HT.		W	TH.	L_				
Ш	6:8			134"					12"× 12" DIA. 558 GLASS
2	1_		2'-8"		NO?	2323	W. 1	PINE	MILL MADE
3	_	T	2'-6"		H.C	SLAB.	MAH	OGANY	24" = 24" LITE
		Ţ	2'-0"	1	JOB	·Built	PLY	WD.	2"PLYVO. ON 1 42 FRAME
5	<u> </u>	•	5	ε		TE			
6		1	2'-6'	138	HC	GND	MA	log.	
67		1		Ц_	1				
8		L	1_					L	
9	Ш	1	2:0	Ш			L	<u> </u>	
[0]		1	L	Ш		L	L	L	
		1		Ц.		L	L	I	
ज्ञान्त		1		LL.		L		L	
1	1_	1	1_	ļ	L				
M	$\bot\bot$	4	L	1 7	L1	<u>L</u>	L.,	<u> </u>	
19	1	-1	11"	1	708	MILT	3 P	LYND	
16	1		2-46		ļ	ļ	L	<u> </u>	
17	3-0	7	7-0	238		1	l	<u> </u>	PLYND ON 2×4 FRAME - 3 DIA LITES (1 PIECE)

	WINDOW SCHEDULE												
ó	SIZE #			TYPE	MATERIAL	COMMENTS							
2	W	H	7	2/2 DH	W. PINE								
$\overline{\Lambda}$		5.10											
		3-3"		1									
3	3-12	4-102	П										
4	2.44	"	П										
13	2.4%	11	П	TT									
6	2 44	4-52	П										
IΑ	3.4"	4-5"	П										
A	3'-4"	3-13"	Π		7								
A	2.0	2'-4"	1	1	1								

* HOTE!

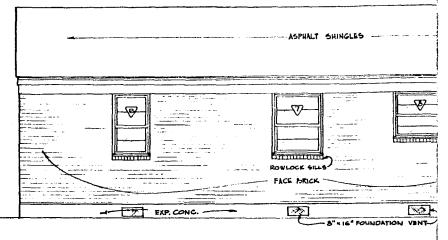
WINDOW DIMENSIONS ARE TAKEN FROM JAMB TO JAMB AND HEAD TO SILL AT OUTSIDE FACE OF WINDOW.

TEST HOUSE "4 4301	2.6. 10.4	SI. OKLAHOMA CITY			
	PRACTICAL PRACTI	S.S.T. PROGRAM IEST STRUCTURE FOR FOREAL AVIATION AGENCY-OXLAHOMA CITY			
JUNUARY 27, 17G4	TRACES BY	udgins, Thompson, Ball and Associates, Suc. 1411 CLASSEN SEVD. ONLAHOMA CTV. ONLA. 700 MAYO BLOQ. TULBA. ONLAHOMA	A-3		

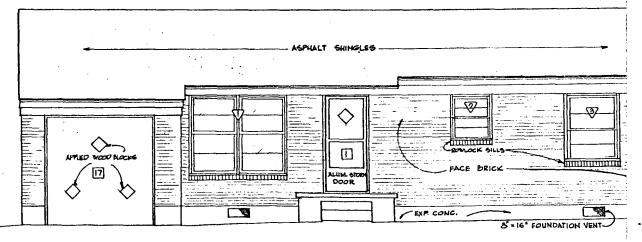
STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2

AS-BUILT DRAWINGS - SHEET 14 of 30

TEST HOUSE NO. 4 (4 of 5)

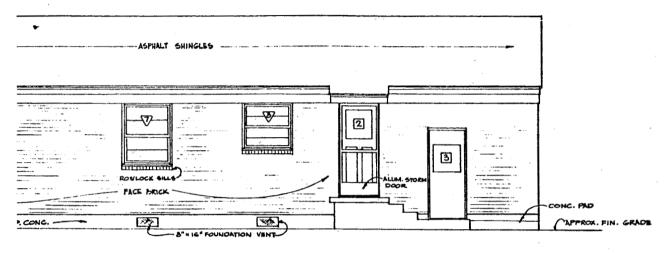


MORTH ELEVATION

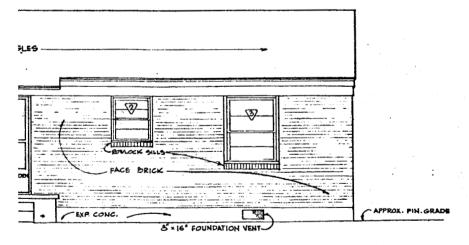


SOUTH ELEVATION GCALE: 4" = 1"-0"





MORTH ELEVATION



ELEVATION____

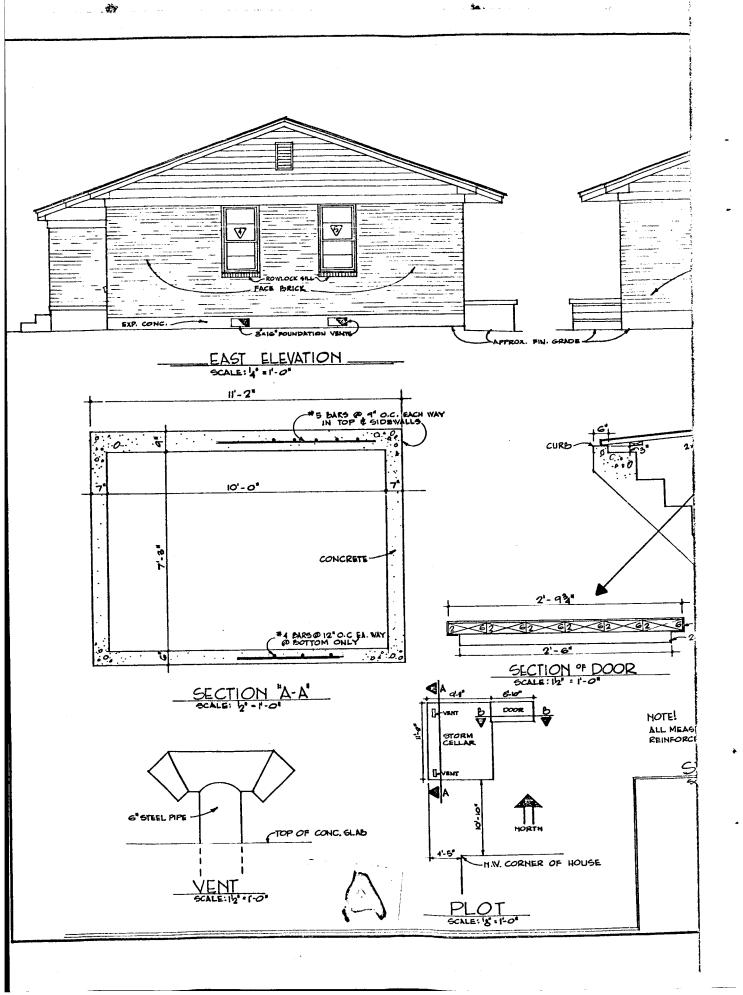


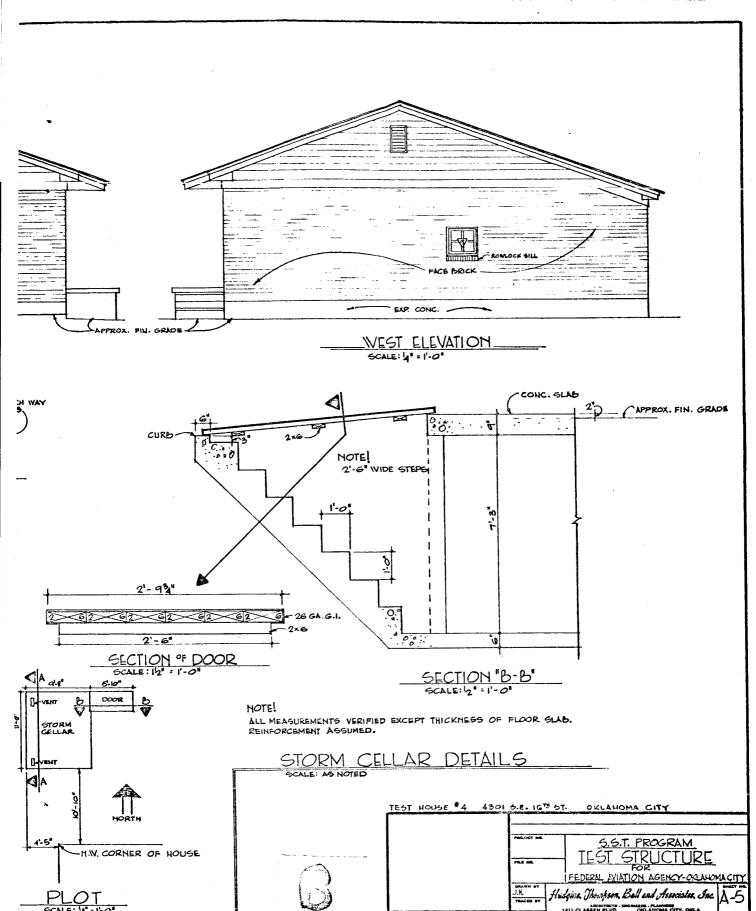
rest house \$4 4	301 5.8.16	TH ST. OKLAHOMA CITY			
·	989				
DATE	ORANN OT JH TRACED BY	Hudgins, Thompson, Ball and Associates, Inc. 1411 CLASSEN SUTE: DESIRED ONL ANOMA CITY, CHILA. 1411 CLASSEN SUTE. DESIRED ONL ANOMA CITY, CHILA. 1411 CLASSEN SUTE. DESIRED ONL ANOMA CITY. 1414 ONL ANOMA CITY. 1415 ONL ANOMA CITY. 1416 ONL ANOMA CITY. 1416 ONL ANOMA CITY. 1417 CLASSEN SUTE. 1417 C			

STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2

AS-BUILT DRAWINGS - SHEET 15 of 30

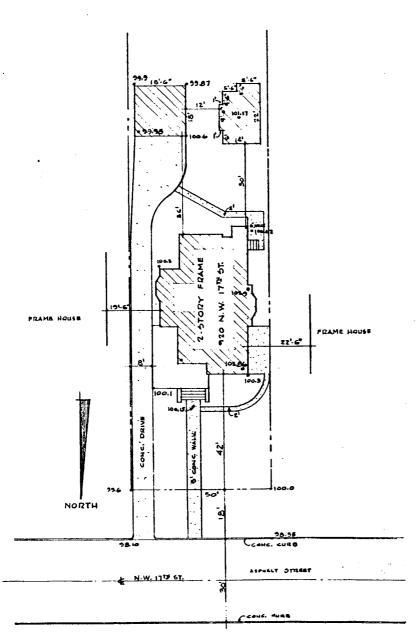
TEST HOUSE NO. 4 (5 of 5)





JANUARY 29, 1964

STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2
AS-BUILT DRAWINGS - SHEET 16 of 30
TEST HOUSE NO. 5 (1 of 4)



PLAN

PLOT PLAN

SCALE: 1" - 20"

B.M. - TOP FIRE PLUG & S.W. COR. OF
N.W. 17" ST. & N. FRANCIS



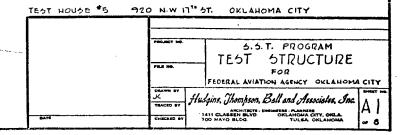
		7)() (Ō	~	1		F	IN	11	SH SCHEDULE
ું		F	FLC	20	r,		W	LL	5	CL	G.	COMMENTS
AREA N		CARPET	PINE	OAK	LINECLEUM	CER. TILE	W.P/FLAFTER	PLASTER	WAINSCOT	W.P./PLASTER	PLASTER	
	FOYER	0				Ì		Ō,		رجد	0	
2	LIVING	0						0	_		0	
(3)	DINING	0	Ш					Ο,		L_	0	
4	BREAKFAST		\Box		O			0	_		0	
(3)	PATH		Ш		Q		Ш	0	_	L	0	
<u>©</u>	FARLOR	0	1_1			L	L	0			0	
	KITCHEN	L			<u> </u>			0	朱	L	0	tra Tis, V-JOINT
(3)	ENTRY		0					*		_	0	*IX4TEG, V-DINT *116
(3)	STORAGE	L.	0		L			O.		L	0	
(10)	STAIRCASE			0	L	L		0		_	0	
	HALL		0			\Box		Q			0	
(12)	BEDROOM			О				0			0	
13	BATH					0		0	*		0	CERAMIC TILE 4'-8" HIGH
	BEDROOM	T	0	ļ -		Γ	0			ō	-	
(15)	BEDROOM	Γ	0		<u> </u>		O			O	-	
(ic)	PEDROOM	Γ	0	Г	1	Г	0			ō		
	BEDROOM	Г	0	Г	Г	T	0	Π.		б	Г	

NOTE: WOOD BASE ALL ROOMS, CERANIC TILE BATHROOM \$13

				DOC	017 50	CHEDULE			
o	6 SIZE			TYPE	MATERIAL	COMMENT5			
ž	HT.	W.	TH.						
0	71.0	3'-0"	134"	FULL OL.	WHITE PINE	IDEAL ND GSE W 2 - 18" SIDELIGHTOF TRAN			
2		2'-8"	+	HALF GL.	i i	WITH TRANSOM			
<u> </u>		2'-8"	135	5 PANEL					
(4)		2'.0"	T						
(3)	1	2,-6							
0	8'.0"	31.04			1				
0	7'-0"	5'-0'	1.	STORM	ALUMINUM	GLASS & WIRE CLOTH			
⑧		2'- B'	1184	SCREEN	WHITE PINE	WIRE CLOTH, IDEAL # 748			

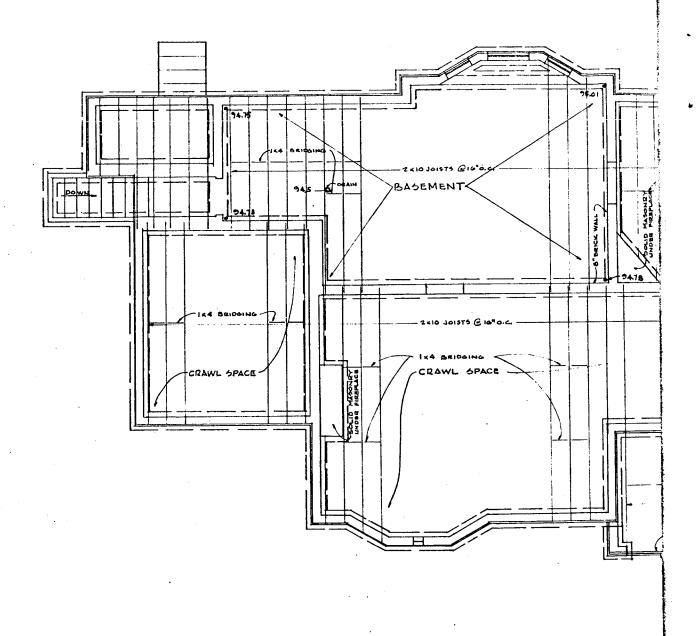
Γ			V	VII	ND	01	7	5CHEDULE
a			TY	PE	MATI	ERIAL	COMMENT6	
9	HT.	w.*						
\triangle	G-1"	3.0"	138	1/1 0	.н.	WHIT	E PINE	
ΔÀ		1'-8"					l	
A		2'-8"						
		2'-0"					L	
▲	5	21.8"						·
A	5'. 2"	2'.8"						
6	4'5"	41.5124				<u> </u>	<u> </u>	
Δ		21.0	\Box	L				
$ar{w}$	5.5"	3'.0"				L		
Δ		8402				L		
Δ		2'-8"	\Box			1		
$ar{\mathbb{A}}$		2'0"	\Box					
A	5'-1"	2'-4"					L	
A	4'-5"							
A	3, 9,	2 5	ΙL	ILT.	CSMT	<u> </u>		
3	2'-4"	31.0		ILT	FIXED	1	1	

NOTE: WINDOW DIMENSIONS ARE INSIDE JAMS TO JAMS & HEAD TO GILL.



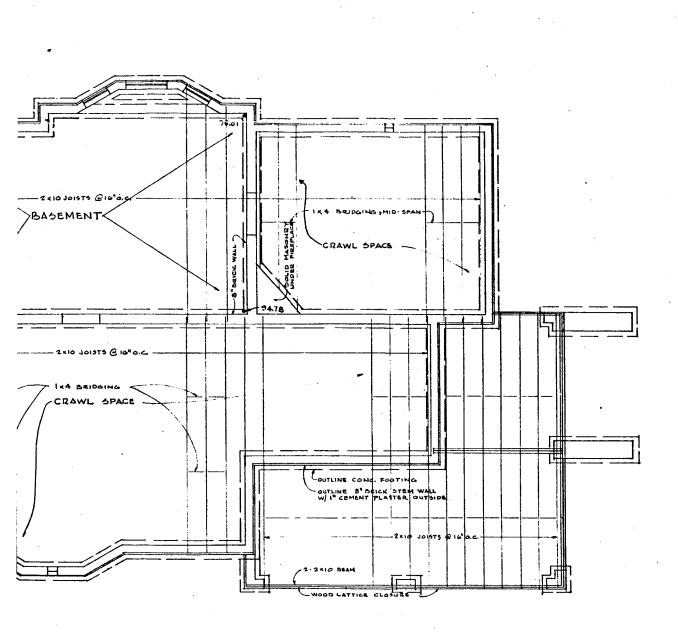


STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2
AS-BUILT DRAWINGS - SHEET 17 of 30
TEST HOUSE NO. 5 (2 of 4)



FOUNDATION & UNDERFLOOR FRAMING



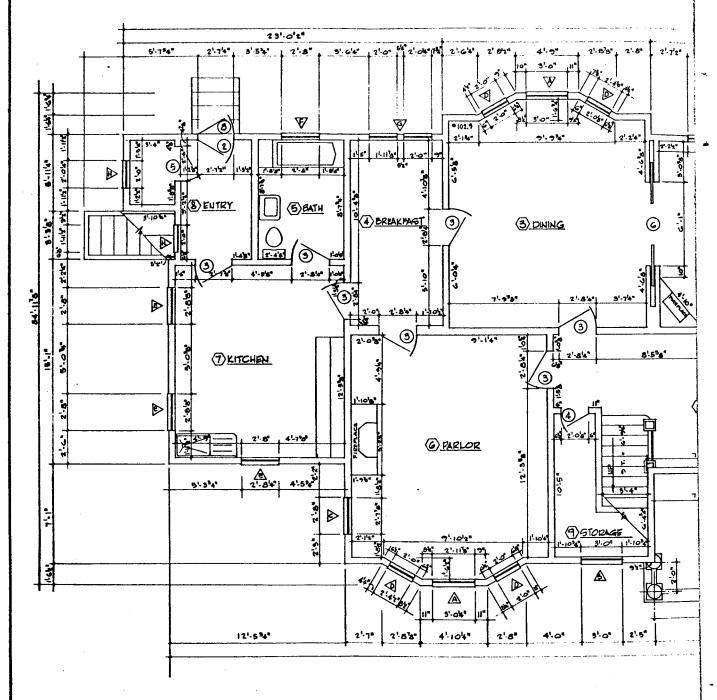


ION & UNDERFLOOR FRAMING PLAN



TEST HOUSE \$5 920	N.W. 17"	OKLAHOMA CITY
	989	GGT PROGRAM TEGT GTRUCTURE
	1 :	General Avation Agency-Charloma City Igins, Thompson, Ball and Associates, Inc. A 2
Pati		411 CLASSEN BLVB. OKLAHOMA CITY, OKLA. OO MAYO BLDG. TULBA, OKLAHOMA

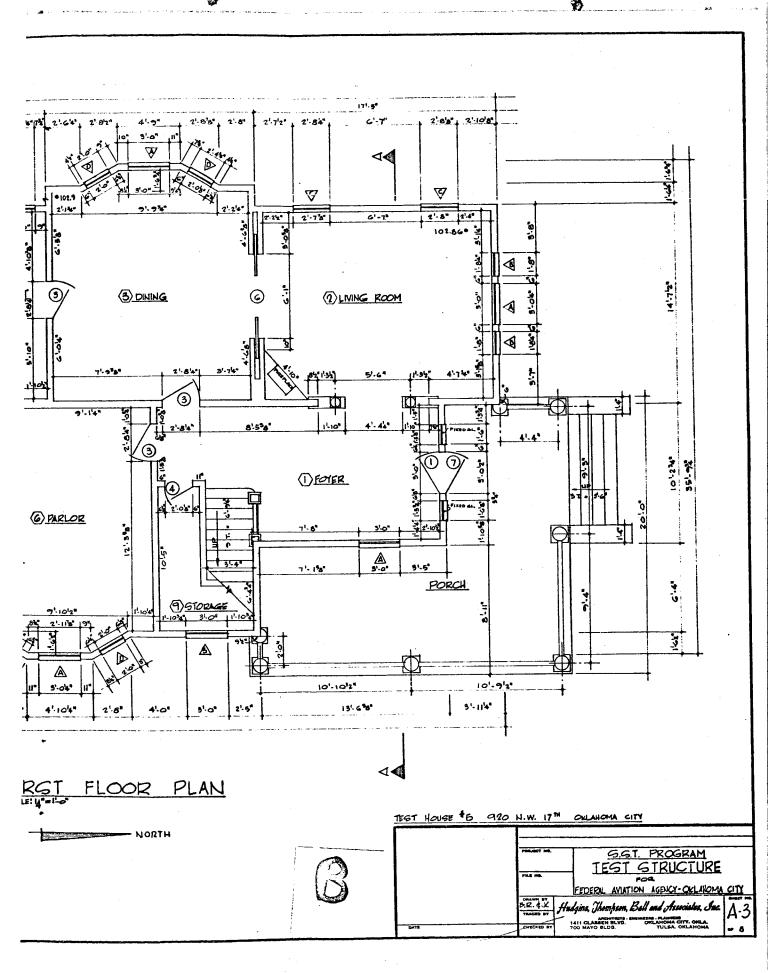
STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2
AS-BUILT DRAWINGS - SHEET 18 of 30
TEST HOUSE NO. 5 (3 of 4)



FIRGT FLOOR PLAN

NORTH

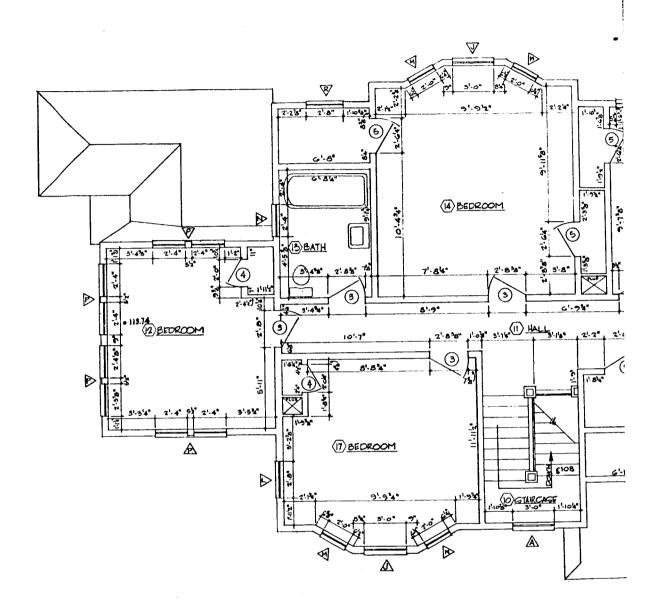




STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2

AS-BUILT DRAWINGS - SHEET 19 of 30

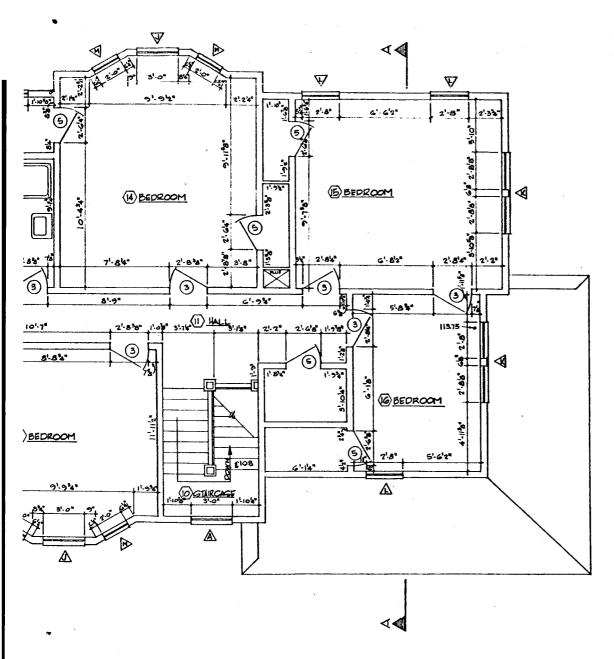
TEST HOUSE NO. 5 (4 of 4)



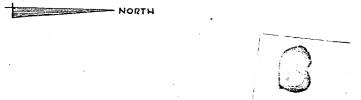
GECOND FLOOR PLAN

NORTH





ECOND FLOOR PLAN

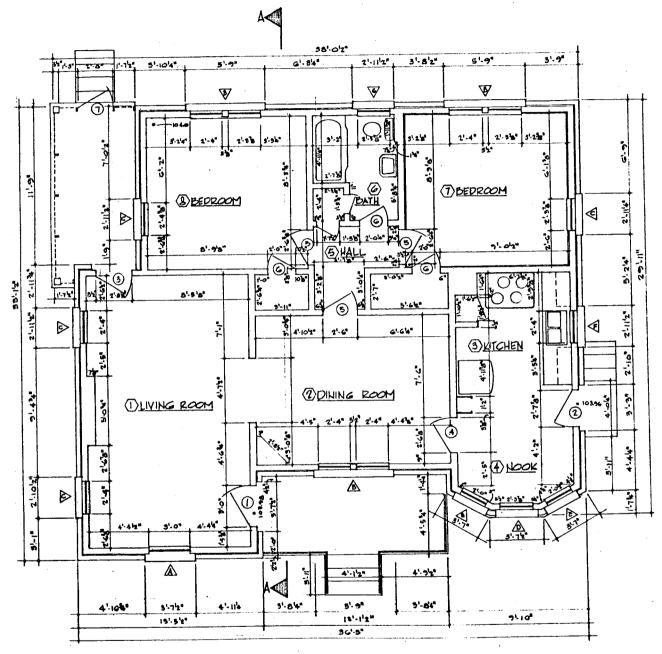


TEGT HOUSE 5 910	N.W. 17TH OKLAHOMA CITY
	PRANT IN
	TEST STRUCTURE
	FEDERAL AVIATION AGENCY OKLAHOMA CIT
	B.R. TRUCKED BY Hudgins, Thompson, Ball and Associates, Jua.
DATE	CHECKED BY 700 MAYO BLOG. TULSA OKLAHOMA & 8

STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2

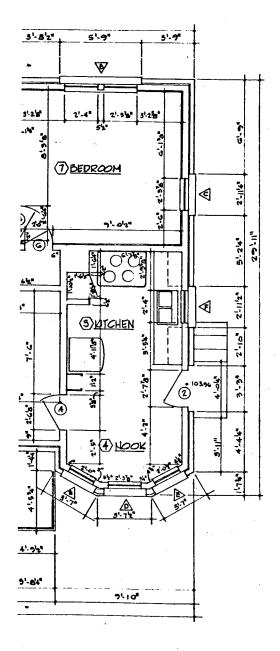
AS-BUILT DRAWINGS - SHEET 20 of 30

TEST HOUSE NO. 6 (1 of 1)



FLOOR PLAN





ROOM FINISH SCHEDULE											
		FLOOR				WALL5			CI	Ğ,	COMMENTS
AREA NO.	DESIGNATION	CARPET	OAK	Y.A.TILE	CER. TILE	W.P./PLASTER	K. PING PAUL	CERT MAINS.	W.P. PLASTER		
\odot	LIVING BOOM		0	Г	Ė	o		Ť	O	Г	
$2\rangle$	DINING ROOM		0			ō	*	Τ	0		WOOD WAINSCOT 2'-3" HIGH
3>	KITCHEN		Г	0		O		Γ	0		
4)	HOOK	Γ	Γ	0		Ō		Γ	0		
5)	HALL		0			Ō		Γ	0		
6)	BATH				0	\circ		ō	a		TILE WAINSCOT @ TUB 5'-5" NIGH
7	BEDROOM	Г	O	Г			O	Γ	0		
8)	BEDROOM	Г	О	Г		O		Г	O		

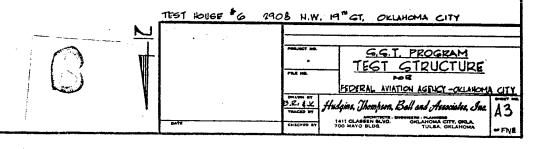
NOTE: WOOD BASE ALL ROOMS EXCEPT BATH, 4"CERAMIC TILE

				DO	DR 50	CHEDULE	
q	5	126		TYPE	MATERIAL	COMMENT	
Ž	HT-	W.	TH.	PANEL	WHITE PINE	3LITES 5.5.5 6410	
Θ	6.9,	3.00	124			IDEAL * NO 549	
0		2.8				NDG42	
<u> </u>		+				NDIIO	
③		2'-6"	1984			2 PANEL	
(3)		1			1		
Ó		21-0"	•		1		
(7)	+	21-8"	1'8"	SCREEN		108AL #747	

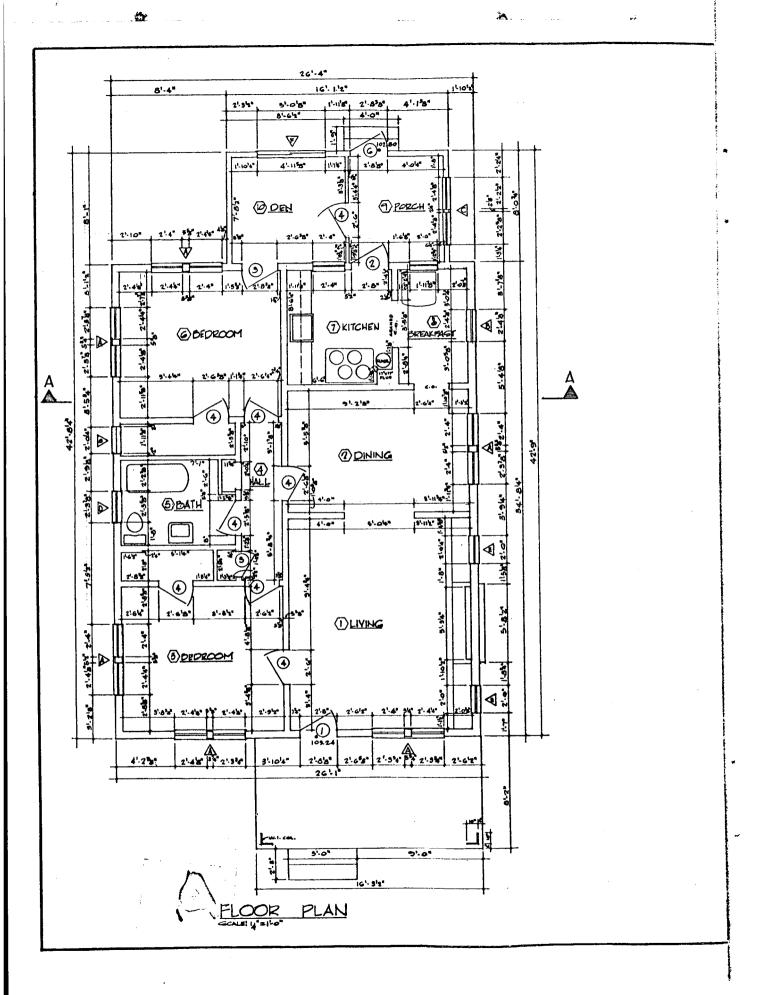
				WI	NE)OV	V	5CHEDULE
).	- 6	IZE			PE	MATE	RIAL	COMMENTS
3	HT.		TH.			WHIT	PINE	
Δ	5'-5"	31.04	130	6/6	D. H.	1	1	
Δ	41.50	5'.17	T		1		!	<u> </u>
Δ		2'-4"			 	1		
$\overline{\mathbb{A}}$	31.9"				—	1	 	
$\overline{\Lambda}$		2.0		\vdash	†	1	 	
$\overline{\wedge}$	219"	2.4		1	1	1	 	
Ā	31.5"				1	1	İ	

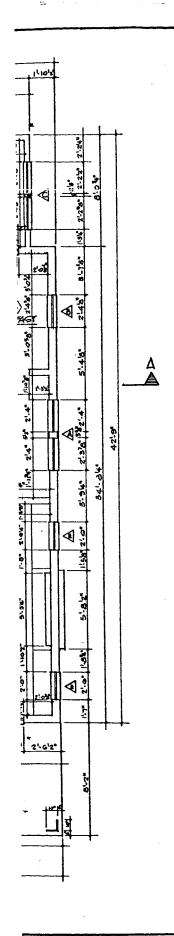
NOTE: WINDOW DIMENSIONS ARE INSIDE JAMS TO JAMS & HEAD TO SILL.

* MODULAR DIMENSION - SEE PLAN FOR EXACT DIM.



STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2
AS-BUILT DRAWINGS - SHEET 21 of 30
TEST HOUSE NO. ? (1 of 1)





	ROOM FINISH										SCHEDULE	
		F	LOC	R			LL	5	CI	G.		COMMENTS
AREA NO.	DESIGNATION	CARPET	PINE FLRING	ASPHALTTILE	LINGLEUM	W.R./PLASTEE	GYP. B.R.		W.P. PLASTER	INSUL. BD.		
0	LIVING ROOM	0				0			0			
1	DINING ROOM	Ι	0			0			0			
(3)	BEDROOM	Г	ō			0			O			
(HALL		0	_	Г	0			0			
3	BATH	Г		Г	0	Ö			Ö			HARDBOARD WAINSCOT 4'-0"
0	PEDROOM	1	0	Γ	Ι_	\circ			0	Ι_	[]	
0	KITCHEN			O	Γ	0			0			
3	BREFST.	1	О			0			0			
1	PORCH		Q				0			0		
8	DEN		0		L		0			O	L	

NOTE: WOOD BASE ALL ROOMS.

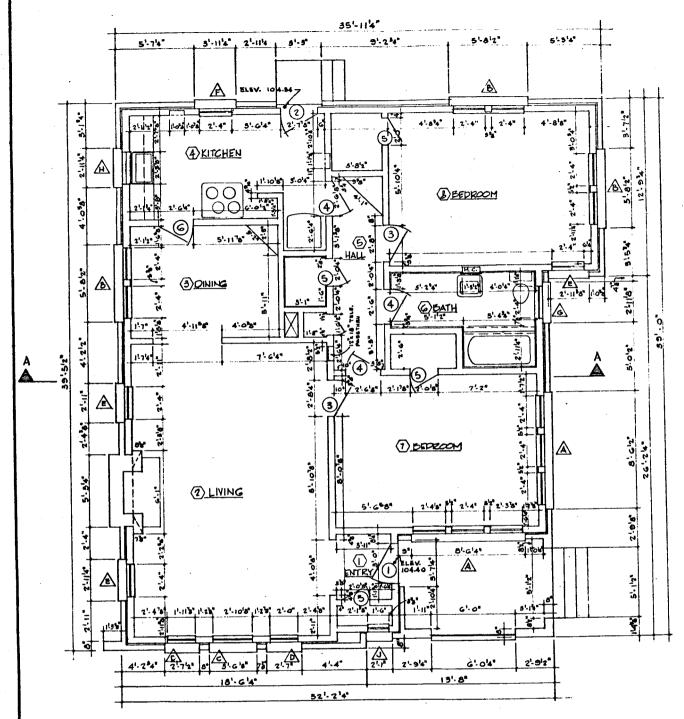
				D001	? SC	HEDULE	
o	5	IZE		TYPE	MATERIAL	COMMENTS	
ž	HT.	w.	TH.		I		
0	6.8	2'.8"	1540	IS LITEG-SSB	WHITE PINE		
0		2'-8"	1	PANEL	1	4 PANEL - 12 GLASS (NDS49)	
0		2'.8"	15.	2 PANEL	I		
(2'.6"	T				
(3)		2'.0"					
Ŏ	\vdash	2'.8"	180	SCREEN	1		

Γ	WINDOW SCHEDULE											
7	5	IZE		TYPE	MATERIAL	COMMENTS						
õ	H%.	W.*	TH.		1							
	4'-5°	5'1'2"	138	1/1 0.14.	WHITE PINE							
A	3'-9"	2'-4"	1									
A	3'-5"	41-79	П		T I							
菡	5.0	2'-4"	П									
$\overline{\mathbb{A}}$	2'-0"	21.0"	П		1							
A	5.00	510"	П	HORIZ. SLI	MUNIMULA							
	21. 2"	21-G*		FIXED GL.	WHITE PINE							

NOTE : ALL WINDOW DIMENSIONS ARE INSIDE JAMB TO JAMB, HEAD TO SILL.

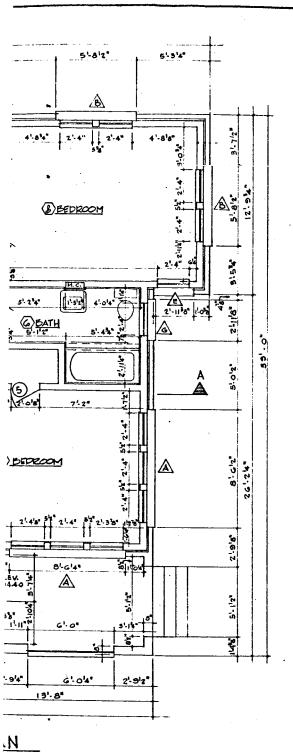
TEGT HOUSE # 7 2912 N.W. 19 MOT, OKLAHOMA GITY GGT PROGRAM TEGT STRUCTURE FEDERAL AMATION AGENCY-OKLAHOMA CITY Hudgins, Thompson, Ball and Associates, Inc.

STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2
AS-BUILT DRAWINGS - SHEET 22 of 30
TEST HOUSE NO. 8 (1 of 1)



FLOOR PLAN





	ROOM FINISH SCHEDULE										
O.		F	LO	P	12	W	L	.5	CL	Ġ.	COMMENTS
ARE	DESIGNATION	18 K 8 L	HINDLEUM	DAK FLENG	CER. TILE	PLASTER	PRE-PINISURD WALL NO.	CER.T. WSC	PLASTER		
(1)	ENTRY	O				Õ			0	Т	
0	LIVING			0		O			0		
3	DINING	Γ		0		0			0		
4	KITCHEN	Π	0			0	ō	П	0		
(3)	HALL			0			O		O	_	
0	BATH			Γ	0	0		0	0		WAINSCOT 51.8"@ TUS - 41.574" ELEEWHERE
0	BEDROOM	Г		0		0		П	o	_	
3	BEDROOM			0		Ö			0	_	
(3)	ALL CLOSETS			O	П	O			0		HALL CLOSET CEDAR LINED

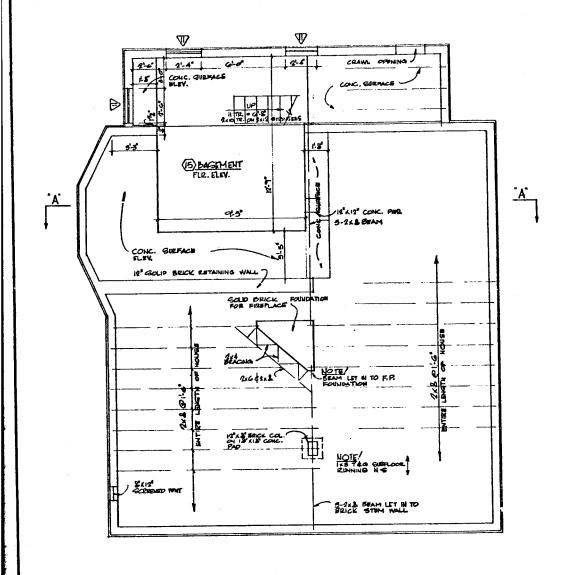
				DO	DD S	CHEDULE	
ď	517	E		TYPE.	MATERIAL	COMMENTS	
ž	HT.	W	TH.				
I)	٥	31.0	1944	FLUSH	MAHOGANY	8" . 8" DIA. 558	
2)		2'8"	1	1/2 GLASS	W. PINE	72" 4 30" QS.B. LITE	
3)		2'-8"	130"	3 PANEL			
4)		21.6"	T	1 1		1	
5)		2'.0"					
۵)		2'.6"		FULL GL.		IZLITES SEIO S.S.B.	

Г	WINDOW SCHEDULE											
o	SIZ	E #	*	TYPE	MATERIAL	COMMENTS						
Ž	HT.	W	TH.									
Δ	4'- 5"	7'-11"	198"	1/1 LTS.	W. PINE							
	4'-9	5'-i*a"		1/1 LTS.								
	5'-5"	2'10'8	\sqcap	DID LTS								
	5.5	2'.0"		9/9 LTS.								
	4'-5"	7'-4"	\Box	1/1 LTS.								
Δ	51-9"											
	3.9.		\Box									
$\Delta \Lambda$	2-94	1		,	1							
Δ	5'-4'2"	11.6"		4/4 LTS	1							

* NOTE:
WINDOW DIMENSIONS ARE INSIDE JAMB TO JAMB &
HEAD TO SILL. SEE PLAN FOR EXACT DIM.

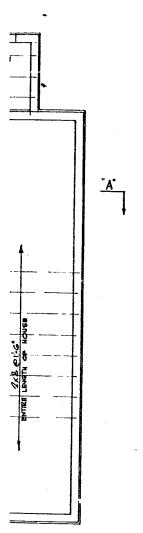
TEST HOUSE #1 - 2915 N.W. 1914 OKLAHOMA CITY 5.5.T. PROGRAM TEGT GTRUCTURE PEDERAL AVIATION AGRICY-OKLAHOMA B. 22. 4 X Hudging, Thompson, Ball and Associates, Sac. A-3

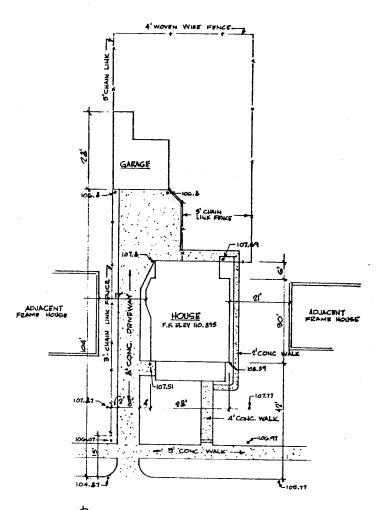
STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2
AS-BUILT DRAWINGS - SHEET 23 of 30
TEST HOUSE NO. 9 (1 of 3)



BAGEMENT FLOOR
UNDERFLOOR FRAMING







NORTH WEST PARK PLACE

B.M. - TOP FIRE HYDRANT N.W. CORNER W.PARK \$ N. WESTERN

PLOT PLAN



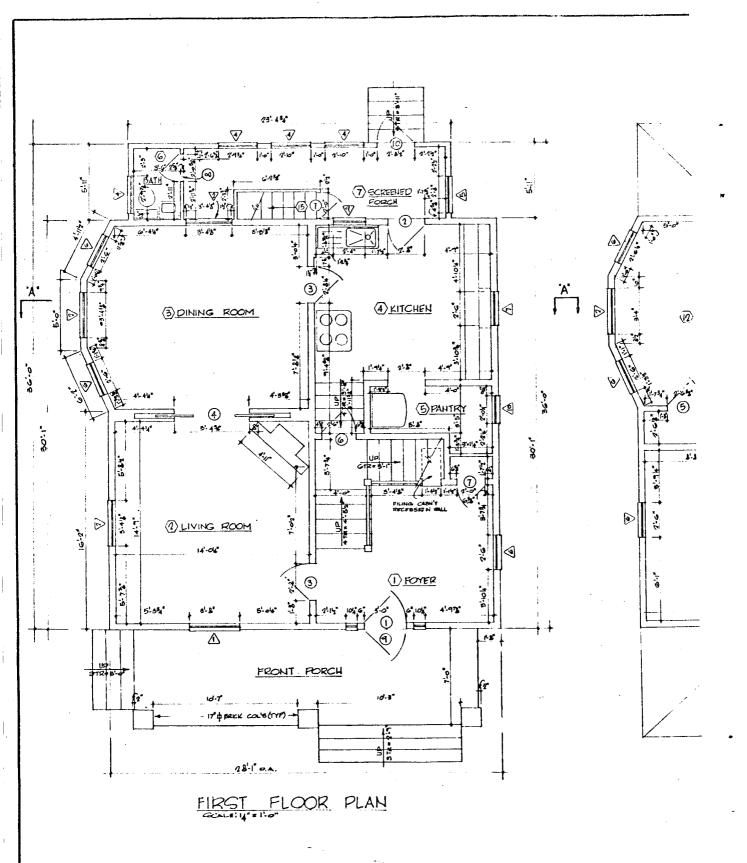
	1EST HOUSE \$9 -1116	WEST PARK	PLACE OKLAHOMA CITY
		PROJECT NO.	GSI PROGRAM TEGT STRUCTURE
-21	DATE.	TRACED BY	GORAL AVIATION AGENCY - OKLAHOMA CITY Agina, Thompson, Ball and Associates, Sac. A-1 CLASSENTER INSINEER - PLANIES TY, OKLA OKLAHOMA TULSA OKLAHOMA FILE FI

STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2

AS-BUILT DRAWINGS - SHEET 24 of 30

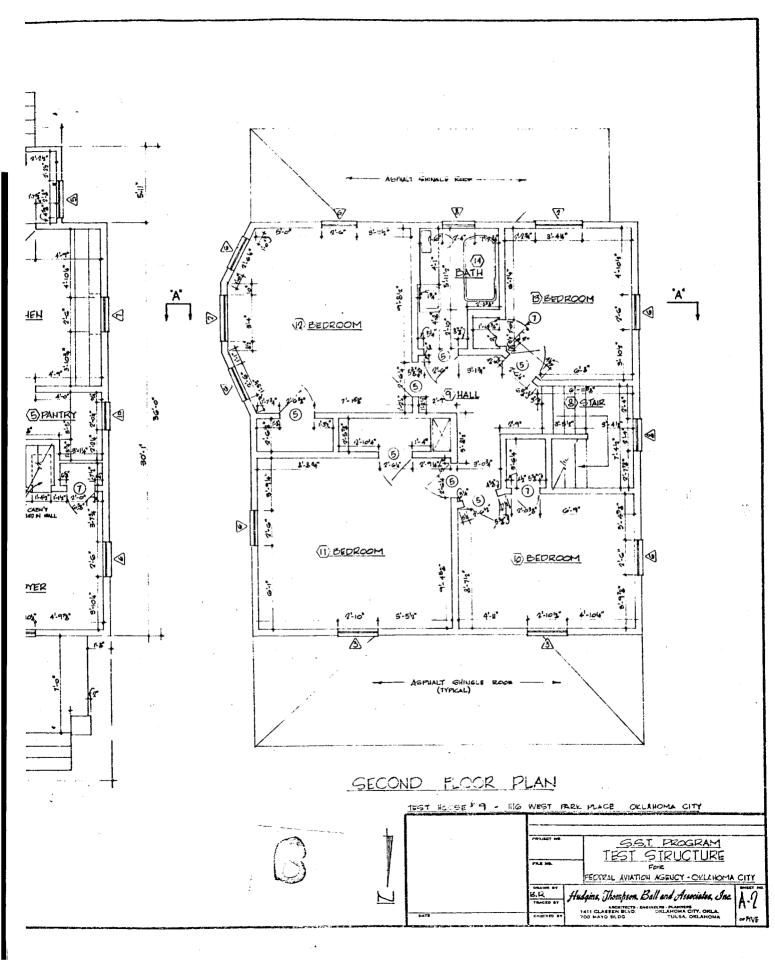
TEST HOUSE NO. 9 (2 of 3)

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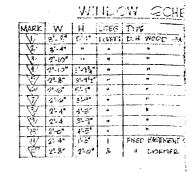


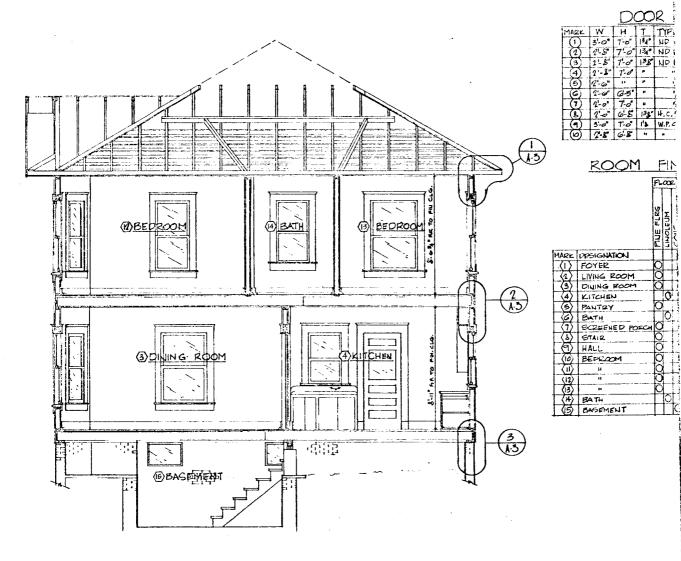


STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2

AS-BUILT DRAWINGS - SHEET 25 of 30

TEST HOUSE NO. 9 (3 of 3)

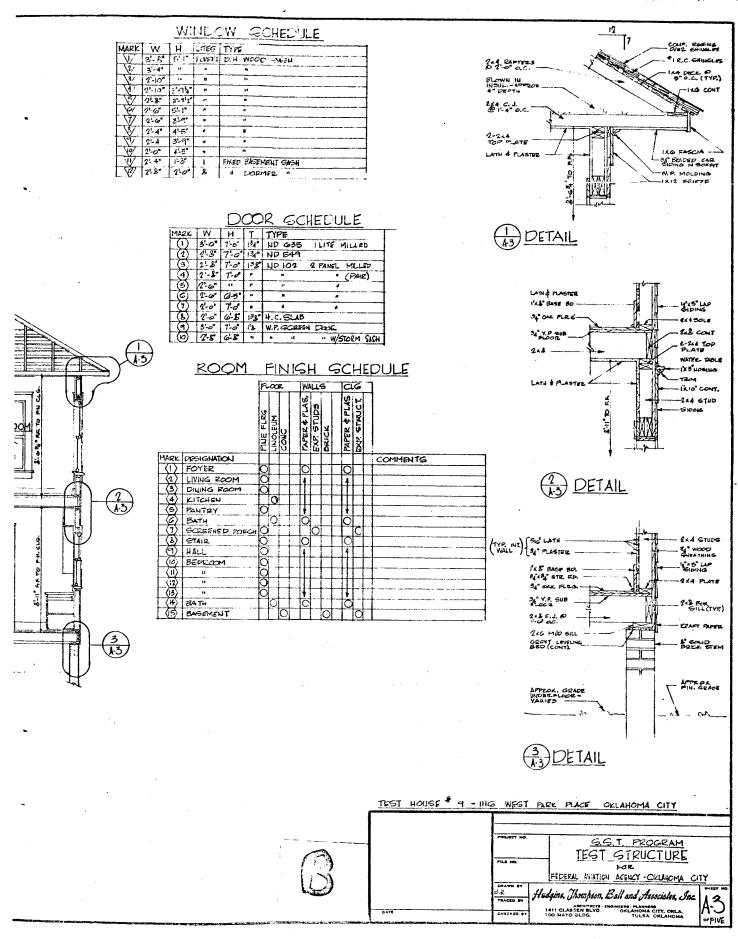




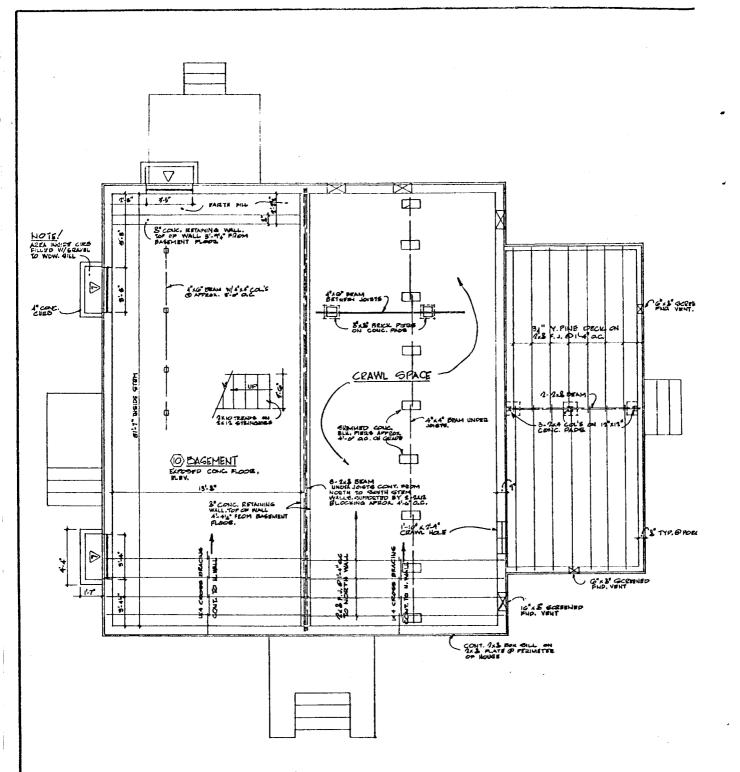
SECTION A-A

V





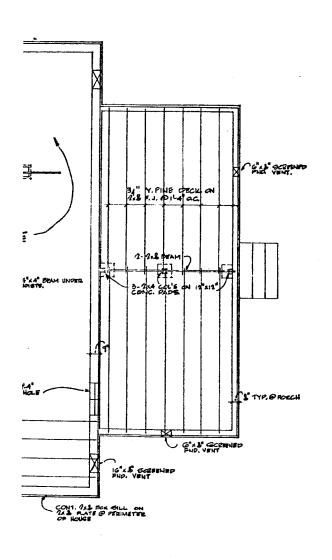
STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2
AS-BUILT DRAWINGS - SHEET 26 of 30
TEST HOUSE NO. 10 (1 of 3)

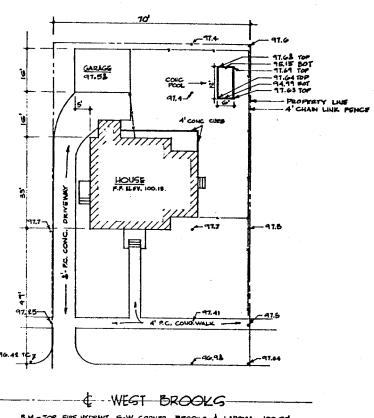


BAGEMENT FLOOR & UNDERFLOOR FRAMING PLAN



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B.M.-TOP FIRE HYDRAIT G.W CORNER BROOKS & LAROMA 100.00

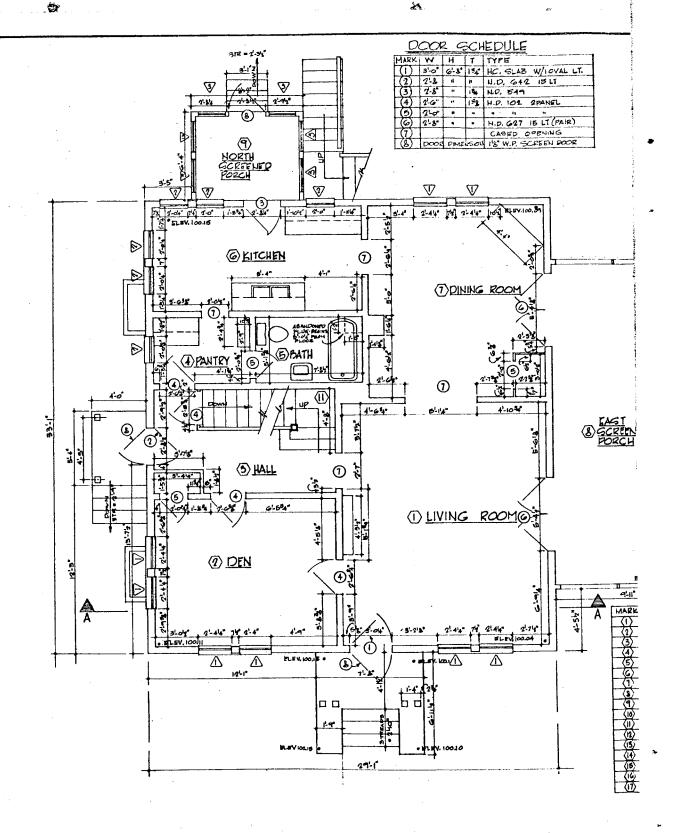
PLOT PLAN

MING PLAN



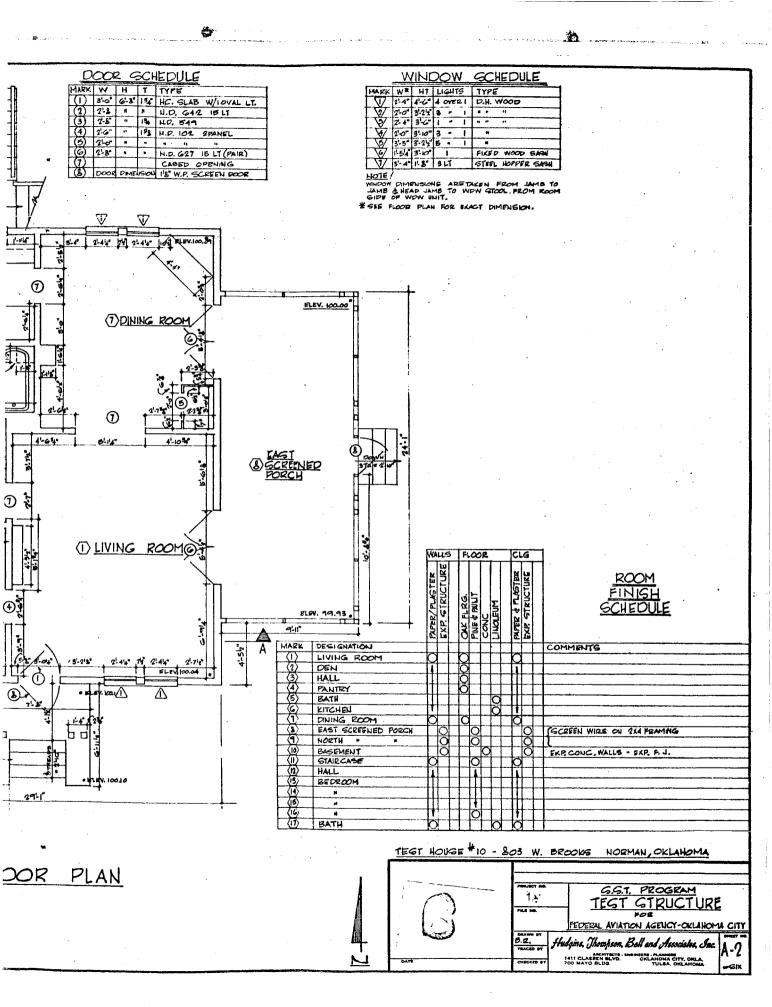
1.1	TEST	HOUSE	*10 ·	203 v	V. BR	0014	HORMAN	N, OKLAHOMA	
				-	OJECT NO.			T. PROGRAM	
				7	UE 116.			GTRUCTURE POR ON AGENCY - OKLAHOM	M CITY
-7	DATE			<u> </u>	LACED BY	14		Ball and Associates, Associates, Associates, Associates, Associates, OKLAHOMA	A-1
	-								~∈ix

STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2
AS-BUILT DRAWINGS - SHEET 27 of 30
TEST HOUSE NO. 10 (2 of 3)

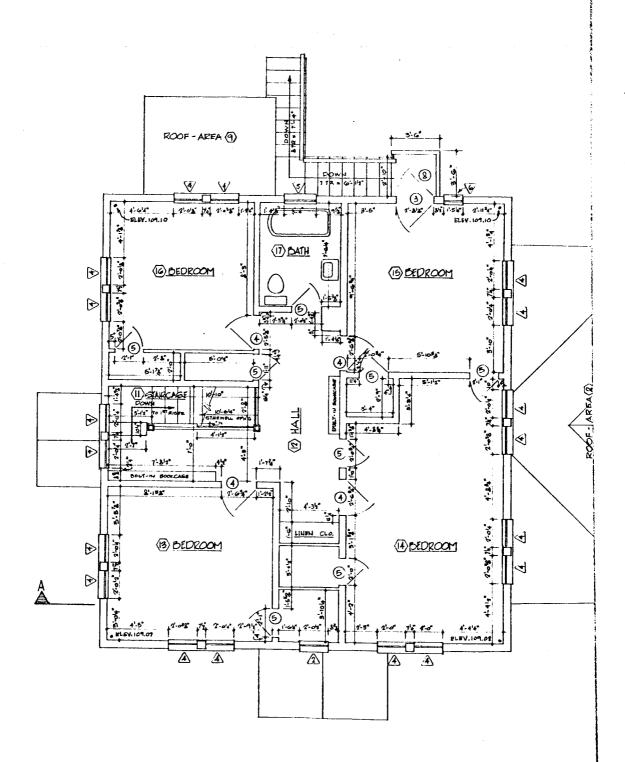


FIRGT FLOOR PLAN





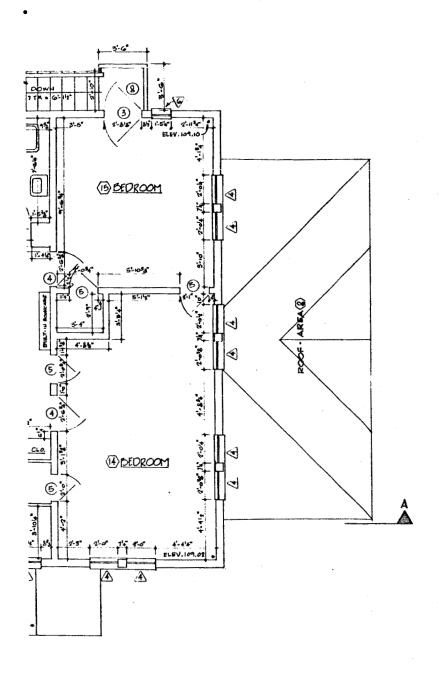
STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2
AS-BUILT DRAWINGS - SHEET 28 of 30
TEST HOUSE NO. 10 (3 of 3)

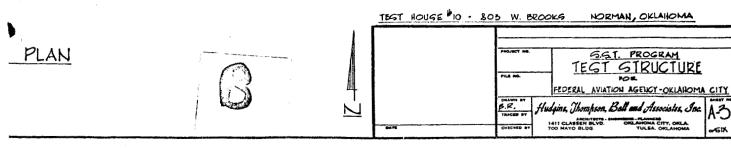


SECOND FLOOR PLAN



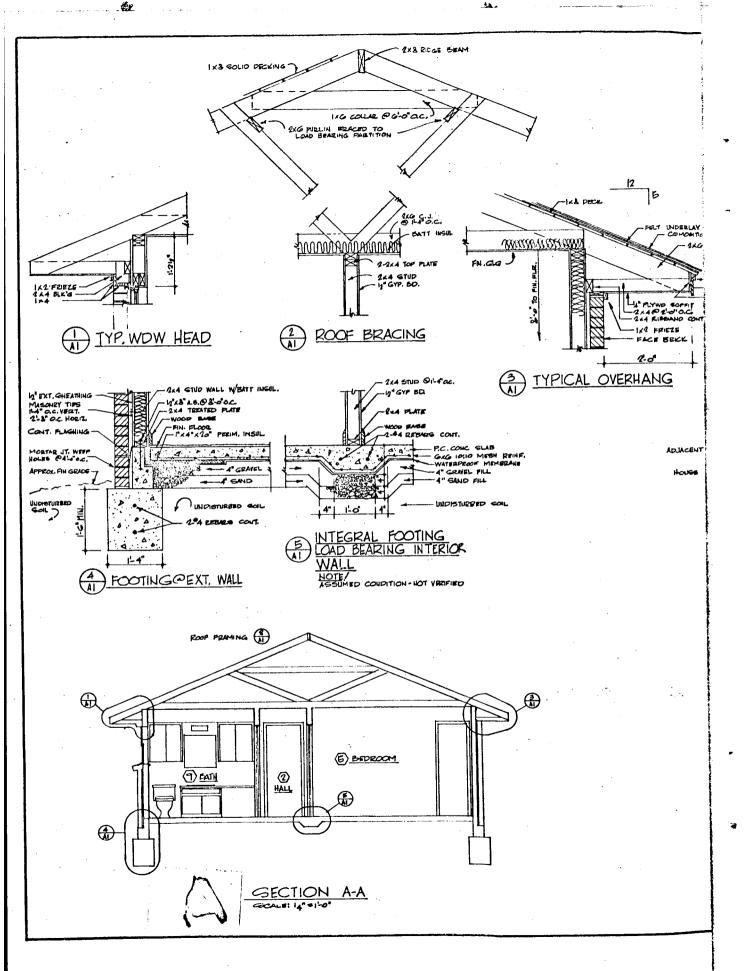
数....

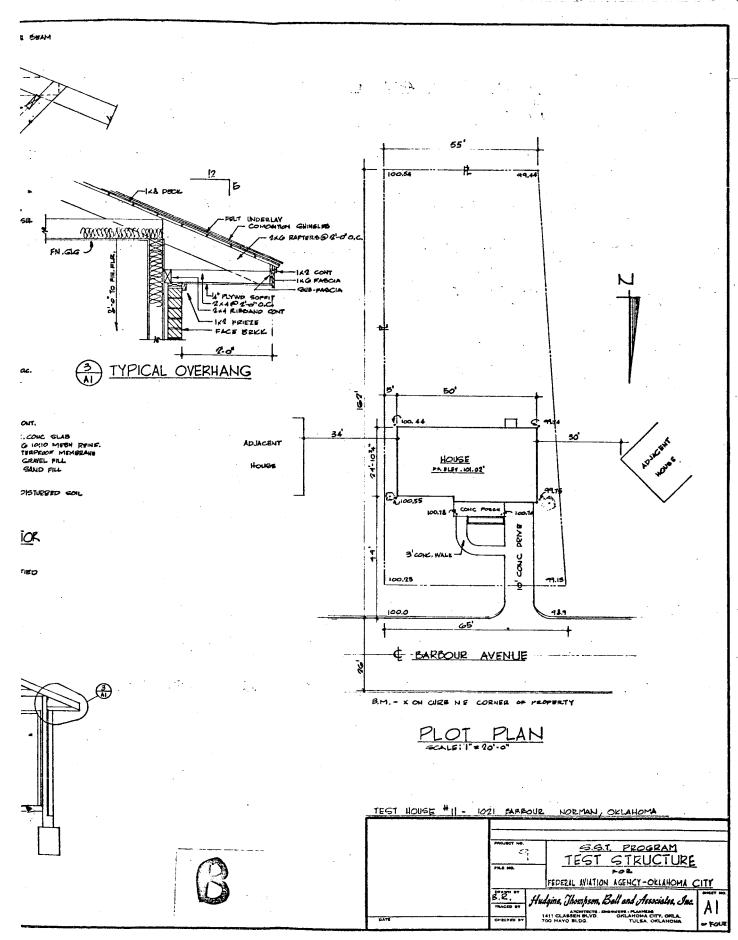




STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2
AS-BUILT DRAWINGS - SHEET 29 of 30
TEST HOUSE NO. 11 (1 of 2)







STRUCTURAL RESPONSE TO SONIC BOOMS - APPENDIX A2

AS-BUILT DRAWINGS - SHEET 30 of 30

TEST HOUSE NO. 11 (2 of 2)

DOOR SCHEDULE

	w	н	т	desc.
	34	63	134	H.C. GLAB
7	28	68	138	H.C. GLAB
3	13	1	134	N.D. 549 (MILLED)
(4)	26		128	H. C. GLAB
(3)	20		1	t: H
0	2.	7	1	II PAIR GLIDING
7	80	70	154	5 SECTION OVERHEAD
(8)				CASED OPENING
(1)				OPPNING - NOT CASED

. E

WINDOW SCHEDULE

	W	H	1	PEG	c		
NV	2-114	4-228	1"	6.H.	ALUM	217/217	
12/	11	21-1058				н	1
₹	н	4'-238"	-	-		H 1	-
J+-		1 1			- TA 14		

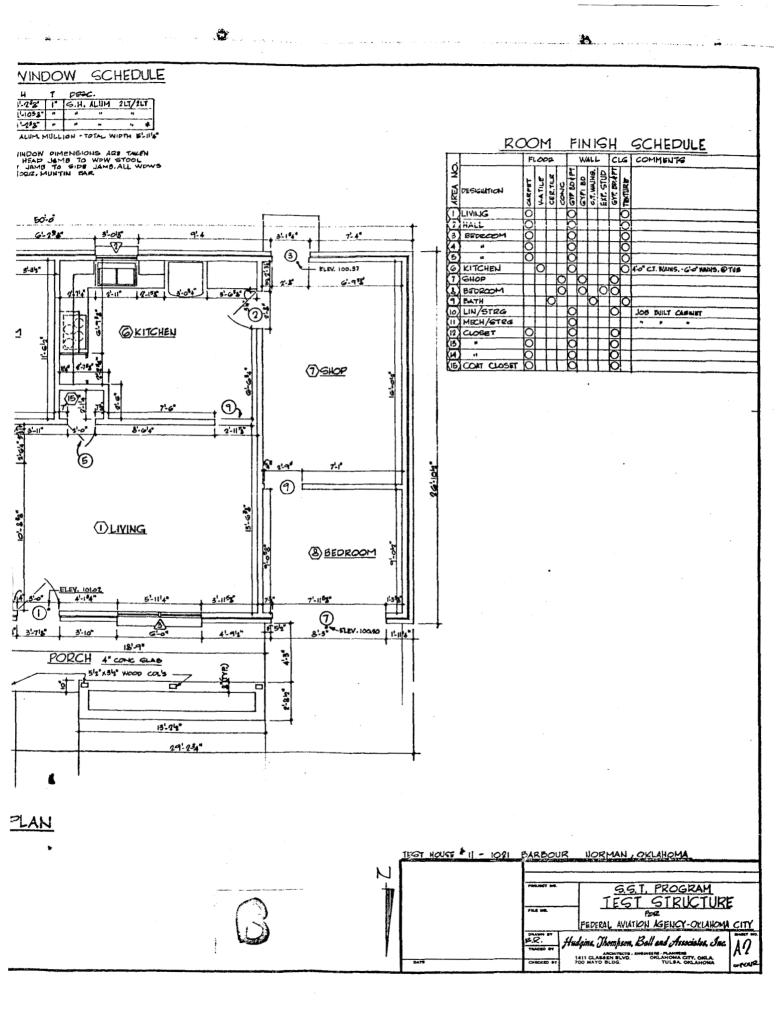
* 2 Units Wi alum mullion - Total width E-III's"

NOTE!

ALL WINDOW DIMENSIONS ARE TAKEN
FROM HEAD JAMB TO WEW STOOL
& SIDE JAMB TO SIDE JAMB. ALL WOWS
HAVE HOOK, MUNTIN BAR

60-0 5-012 + 3-0 7-114 (ક) 2'-11" 17-158 **EXITCHEN** 6 BEDROOM 4 BEDROOM 11- 14" 1 3 BEDROOM 1 LIVING 5-114 3-715 18'4" PORCH 4' cone and 15-24 29-234" 10-70

FLOOR PLAN



TYPICAL

INITIAL

AND

FINAL INSPECTION REPORT

(Combined for comparison purposes)
January and November, 1964

Test House No. 3 1524 Northeast 34th Street Oklahoma City, Oklahoma

NOTES

- 1. Items with the number of the item enclosed with parenthesis were reported on the initial inspection and were found unchanged in the final inspection.
- 2. Items marked with an * are defects that have changed since the initial inspection. Each item must be read to ascertain whether it is an extension of an existing crack, a repair, etc. Also, portions of the description may be enclosed in parenthesis indicating that the enclosed portion has not changed since the initial inspection.
- 3. All items not noted as items 1 and 2 above are defects that have appeared since the initial inspection.
- 4. Total numbers of defects do not necessarily agree with total numbers tabulated or charted as monthly or weekly summaries. These inspections were conducted by different persons under different conditions than the daily and/or thrice weekly inspections which are the basis for the summaries.

AREA 4 - LIVING ROOM:

North Wall:

- 1. I loose nail 92" below ceiling and 30" east of west wall.
- 2. 1 loose nail 16" above floor, 382" east of west wall.
- 3. 1 loose nail 22" below ceiling, 6'3" east of west wall.
- 4. I loose nail 22" below ceiling, 8'12" east of west wall.
- 5. 2 loose nails 113" and 223" above floor, 8'32" east of west wall.
- 6. I loose nail 49" above floor, 13" west of thermostat.
- One vertical crack at west edge of glass screen, open from lower west jamb to floor.
- 8. One diagonal crack 3/8" long at top west corner of glass screen.
- 9. 1 loose nail 14" below ceiling, 172" west of east end of wall.
- 10. 1 horizontal crack at top of wall along ceiling, 13'3" long, starting 38'2" east of west wall.
- 11. 2 loose nails 7'5" east of northwest corner 12" and 24" above floor.
- (12.) Baseboard loose along entire wall.
- (13.) Intersection of gypboard and wood paneling open at west corner of decorative screen and planter.
- (14.) 3/8" long 45° crack at top of west corner of decorative screen.

West Wall:

- (1.) Wood paneling shrinkage crack 1/16" at top.
- (2.) Wood paneling vertical joints open entire wall above mantel.
- (3.) Horizontal crack at top of mantel and butt joint of wood panels.
- (4.) Horizontal crack at splice between 1 x 8 and 1 x 2 on top of mantel 484"
 long starting 294" north of south wall.
- (5.) Same crack as in 4 above at north end of mantel 5-1/8" long starting at north wall.

- (6.) Top and face of mantel ill fitted at north wall. 1/16" open crack.
- (7.) 1 x 8 mantel top split at (2) places on north end where it is nailed.
- (8.) Loose nails protruding out of bottom face of paneling in the 8th and 10th boards from the north wall approximately 1" above mantel. These same boards are split from the nail location to the bottom of the boards.
- (9.) Shrinkage cracks at northwest corner of room from floor to ceiling, where paneling butts gypboard.
- (10.) South end of north bookcase pulled away from fireplace stone. The crack is 25" long starting 3/16" wide at the bottom and stops at top.
- (11.) Four pieces of stone loose at upper right hand corner of ledge stone at fireplace.
- (12.) Loose and missing mortar at top of upper left hand corner of fireplace.
- (13.) Horizontal mortar crack at south end of lintel over fireplace. This crack runs south to the end of the stone work and drops down 2" at end of first stone.
- (14.) Shrinkage crack around ends and bottom of second piece of stone in bottom course from south end of wall.

South Wall:

- (1.) Wood paneled vertical joints opened up in general entire wall shrinkage cracks none exceed 1/8" wide.
- (2.) 2" long vertical crack at west head of Window No. 5 in wood panel.
- (3.) 10" long repaired split in face board at head of Window No. 5 at west end.
- (4.) Door No. 2 head casing opened at west miter joint.
- (5.) Slight shrinkage cracks around entire perimeter of Window No. 5.
- (6.) Baseboard loose and open at mitered joints along entire wall.

East Wall:

(1.) Southeast corner - slight vertical shrinkage crack floor to ceiling.

- *2. Intermittent vertical cracks at panel joint 94-3/4" north of southeast corner have connected and now extend from floor to ceiling.
- *3. Shrinkage crack 8" south of south corridor opening jamb continuous floor to ceiling except 1 area 4½" long located 34½" above finish floor.
- (4.) Shrinkage crack 13-5/8" long from south head of cased corridor opening to ceiling trim.
- (5.) Baseboard loose along entire wall.
- (6.) Heating register bent in south section.

Ceiling:

- 1. 107 loose nails in ceiling. (total)
- 2. One east-west crack, 7½" long, 48" south of north wall and 60" east of west wall.
- 3. One east-west crack, 15" long, 48" south of north wall and 6'9" east of west wall.
- 4. One east-west crack, 4" long, 48" west of east wall and 70" north of south wall.
- 5. One north-south crack, 8" long, 15" west of east wall and 9'3" north of south wall. This crack intersects at south end, one 1'3" long, east-west crack.
- *6. The partially repaired 8-5/8" crack starting at west wall and 70" south of north wall has extended 1-5/8".
- (7.) Water stains and slight cracks in paper in an area 3" wide and 14" long located 14" north of south wall and 17" east of west wall.
- (8.) Intersection of ceiling and north wall 23-1/2" horizontal crack starting at the west wall has extended 4-3/4".
- *9. The horizontal crack which starts 1-7/8" west of west jamb of the decorative screen and runs 57-1/2" east has extended 1" west.

AREA 1 - NORTH ENTRY AREA:

East Wall:

- (1.) Shrinkage cracks around Door No. 12 casings of entry closet.
- (2.) Shrinkage crack 13-7/8" long from south head of Door No. 12 casing to ceiling.
- (3.) One vertical shrinkage crack $8\frac{1}{2}$ long starting at north jamb of Entry Closet No. 12 and one vertical crack $1\frac{1}{2}$ long starting at ceiling trim above north jamb of Door No. 8.
- (4.) Northeast corner slight shrinkage crack from floor to ceiling, partially bridged with paint.

North Wall:

- (1.) Shrinkage crack 14" long from top of casing of Door No. 1 at west edge of Side Light No. 1 up to ceiling trim.
- (2.) West jamb of north Door No. 1 split top to bottom.

Ceiling:

- (1.) One ceiling crack 3/4" long starting 2" from north wall and 30% west of east wall.
- (2.) One ceiling crack 3/8" long 142" west of east wall, 1" south of north wall.
- (3.) Ceiling crack partially repaired 1" long, 47" west of east wall, 112" south of north wall.
- 4. 27 loose nails in ceiling. (total)
- 5. Horizontal crack at intersection of ceiling and west false beam, continuous from north to south end.
- 6. 6 loose nails east face of false beam.
- 7. I horizontal crack, 1%" long starting at north wall on east face of false beam, 11" below ceiling.

FALSE BEAM BETWEEN ENTRY AREA 1 AND KITCHEN AREA 3:

- (1.) One vertical crack 2" long at bottom of register 4%" from north end of register.
- (2.) One 45° crack 2½" long at south bottom corner of register.
- (3.) One vertical crack 1-5/8" long at top south corner of register.
- (4.) One 45° crack 1" long at top north corner of register.
- (5.) One small hole in gypboard at nailhead at south edge of register.

SOFFIT OF FALSE BEAM:

1. 2 loose nails.

PLANTER AT NORTHWEST CORNER OF ENTRYWAY AREA 1:

(1.) Vertical and horizontal shrinkage cracks where planter abuts north wall.

AREA 3 - DINING:

East Wall:

- (1.) Planter 4" long crack at both sides at bottom of door.
- (2.) Northeast corner wallpaper wrinkled at 14", 16" and 36" below the ceiling.
- *3. (Soffit of false beam around ductwork at southeast corner four short erratic cracks from one to three inches long intersecting each other at various angles.) Also 1 diagonal crack 2" long at the inside corner.
- (4.) Southeast corner of area at stud wall above decorative glass screen one forked crack 2" long.
- (5.) At head of east casing of decorative glass screen one vertical crack 2½" long.
- (6.) Top south corner at east end of Kitchen cabinet wood broken wedge-shaped from top where nailed 3" long.
- 7. One vertical crack 1" long extending up from north end of false beam.

North Wall:

1. One vertical crack, 2%" long extending up from west head of Window No. 2.

Ceiling:

- 1. 19 loose nails. (total)
- Several small areas of paint blisters located in an area starting at the north wall, 4' long and 1' wide, beginning at the northeast corner.

AREA 2 - KITCHEN:

West Wall:

- One horizontal crack 15" long at ceiling of window recess starting 3" north of cabinets.
- (2.) Wall-hung cabinets generally in good condition.
- (3.) Second door from south end has a 3" vertical crack 4-3/4" from bottom of south edge.
- (4.) One 2" long 45° crack at bottom south corner of Window No. 4 sill.
- (5.) One 3" vertical crack at south head of Window No. 4 turning west and running 4" horizontal across window recess.
- *6. Northwest corner at Window No. 3 (furring at head one 2½" vertical crack -)

 1½" crack starting at bottom of sill has extended 2½".
- (7.) Northwest inside corner of furring above cabinets has one horizontal crack starting in corner and running north on soffit 3-3/4".

North Wall:

- (1.) Northwest Window No. 3 head at top corner of east jamb one 45° crack 2" long turning at corner and running horizontal 3-1/4" to Window No. 3.
- (2.) At bottom east corner of Window No. 3 at sill one vertical crack 5½" long starting at bottom of sill and located 3/4" east of Window No. 3 jamb.
- One horizontal crack 14" long at ceiling and window recess, starting above east jamb of Window No. 3.
- 4. One vertical crack 3½" long located 23" east of west wall at top of Formica planter.

- (5.) North wall-hung cabinets in good condition with tight joints.
- (6.) Wallpaper ill-fitting at end of blacksplash at east end of cabinets. Also, paper ill-fitting leaving open crack 82" long at top of wall-hung cabinet.
- (7.) North Window No. 2 wallpaper ill-fitting at both jambs and top of window, leaving cracks and jagged edges.
- (8.) Shrinkage cracks around entire Window No. 2.

South Wall:

- (1.) Wood molding at head of cabinet pulled away from furring above full length of cabinet.
- (2.) Wall-hung cabinets along south wall have good tight joints well filled with a few minor shrinkage cracks.
- (3.) Slight shrinkage cracks at wood recess for washing machine station.
- (4.) East and west ends of top of tuilt-in cabinet around oven buckled and cracked.
- (5.) Southwest corner one vertical crack 2" long starting at top of blacksplash and one vertical crack 4" long starting at bottom of cabinet.
- 6. 8 loose nails in immediate vicinity of washing machine location.
- 7. One horizontal crack ½" long extending from top of east corner of washing machine outlet.
- 8. One horizontal crack extending west from top of electric outlet 3" then turning 90° and extending up 3".
- One vertical crack 1" long starting 2" above floor and 25" east of oven cabinet.
- 10. One vertical crack 3/8" long starting at baseboard, 252" east of oven cabinet.
- 11. One vertical crack ½" long starting at baseboard and located 30" east of oven cabinet.

- 12. One vertical crack 2½" long starting at baseboard and 38-3/4" east of oven cabinet.
- 13. One diagonal crack 3/8" long extending down from lower west corner of washing machine plumbing recess.
- 14. One vertical crack ½" long extending down from bottom of washing machine plumbing recess and located 22" east of oven cabinet.
- 15. One vertical crack 4½" long extending down from bottom of washing machine plumbing recess and 27" east of oven cabinet.
- 16. One diagonal crack 1" long across east bottom cover of washing machine plumbing recess.
- 17. One vertical crack 1" long extending up from lower east corner of washing machine plumbing recess.
- 18. One vertical crack 1" long 42" above floor, 31" east of oven cabinet.

AREA 12 - ENTRYWAY CLOAK CLOSET:

(1.) Door warped &" to the west at top, but will latch.

AREA 5 - HALLWAY:

West Wall:

- (1.) Shrinkage cracks around edge of casing at cased opening.
- 2. Two loose nails.
- 3. One vertical crack in southwest corner 1" long starting at baseboard.
- 4. One vertical crack 12" long in southwest corner, starting 11" above floor.
- 5. One vertical crack 1" long in southwest corner starting 14%" above floor.
- 6. One vertical crack 1-3/4" long in southwest corner starting 162" above floor.
- 7. One vertical crack 6" long in southwest corner starting 182" above floor.
- 8. One vertical crack 10" long in southwest corner starting 25" above floor.
- One horizontal crack starting at south wall extending north 1", 37½" above floor.

- 10. One vertical crack 16" long in southwest corner starting 38" above floor.
- 11. One vertical crack in northwest corner 92" long starting 21" above floor.
- 12. One vertical crack 19½" long in southwest corner starting 46½" above floor.
- 13. One horizontal crack at ceiling 19" long starting 12" south of north wall.

South Wall:

- 1. 14 loose nails.
- One vertical crack 2" long 1" east of west wall starting at west head of Door No. 9.
- 3. One vertical crack 1" long 37" east of west wall 14" below ceiling.
- 4. One vertical crack 2" long 392" east of west wall 13" below ceiling.
- 5. One horizontal crack \(\frac{1}{2}^{11} \) long 34" below ceiling 69\(\frac{1}{2}^{11} \) west of east wall.
- 6. One horizontal crack 12" long 342" below ceiling 47" west of east wall.
- (7.) One 2" long horizontal crack at west head of Door No. 9.
- (8.) Shrinkage cracks around perimeter of Heater Closet Door No. 9 casing.
- *9. 1" 45° crack at west head of Door No. 4 has extended 1".
- (10.) Shrinkage cracks at perimeter of casing at Door No. 4 to South Bedroom No. 7.

East Wall:

- (1.) One 2%" long horizontal crack at south head of Door No. 5 to north Bedroom No. 6.
- (2.) Shrinkage cracks around perimeter of Door No. 5 to north Bedroom No. 6.
- 3. Three loose nails.
- 4. One vertical crack 1" long starting at baseboard and 1" north of Door No. 5.
- 5. One horizontal crack at ceiling 2" long starting at north wall.

North Wall:

- 1. Linen Closet No. 14 shrinkage cracks around perimeter of Door No. 11 trim.
- 2. Shrinkage cracks around Door No. 6 casing to Bathroom No. 8.

- (3.) Shrinkage cracks at perimeter of Door No. 7 casing.
- *4. The 1½" 45° crack at top west corner of Door No. 7 casing has extended 4-3/4" with one horizontal branch 2" long extending west.
- One vertical crack l" long starting at ceiling and northwest corner, running to top of linen closet.
- One diagonal crack 1½" long extending up and west from top west corner of Door No. 14.
- 7. One horizontal crack at ceiling 4" long starting at east wall.
- 8. One horizontal crack at ceiling 5" long starting 15" west of east wall.
- 9. One horizontal crack at ceiling 4" long starting 24½" west of east wall.
- 10. One horizontal crack at ceiling 17" long starting 42" east of west wall.
- 11. One vertical crack starting 1" below ceiling and 21" east of west wall.

 This crack extends to ceiling line and extends 1" out, on face of ceiling.
- 12. 2 loose nails.

Ceiling:

1. 20 loose nails.

AREA 13 - HOT WATER HEATER ROOM:

West Wall:

(1.) Gypboard rough cut and torn at gas pipe entry.

Ceiling:

(1.) Gypboard torn and ragged at present flue location. A prior flue location has been crudely patched.

North Wall:

(1.) Gypboard torn where hot and cold pipes go into wall.

AREA NO. 8 - BATHROOM:

East Wall:

- 1. 4 loose nails.
- 2. One vertical crack 1" long in southeast corner starting 24½" above vanity backsplash.
- 3. One horizontal crack at ceiling 36" long starting 4" north of south wall.
- 4. One horizontal crack at ceiling 11%" long starting 27" south of north wall.
- 5. One horizontal crack at ceiling 22½" long starting 1" south of north wall.
- 6. One vertical crack in northeast corner 19" long starting at top of ceramic tile.
- (7.) Ceramic tile wainscot at back of stool shrinkage cracks at top back edge of bullnose.
- (8.) North end of vanity backsplash shrinkage crack at corner and tile grout missing in vertical joints at end.
- (9.) Northeast corner ceramic tile cracked from toe of cove base at floor to top of bullnose.

North Wall:

- (1.) At east jamb of Window No. 12 there is one 4" long vertical crack 1" east of jamb starting at bottom of sill. There is also one crack at the east head of Window No. 12 jamb 45°, 2" long on wall and running horizontal 3½" north to Window No. 12 casing.
- (2.) Shrinkage cracks at both ends and back of Window No. 12 sill with very slight shrinkage cracks along east and west ends of Window No. 12 casing.
- (3.) Pointing mortar cracked and/or missing at top and bottom joints of bullnose cap at top of wainscot and turns upward and continues around perimeter of shower and tub enclosure along the rest of the north wall.

- (4.) Settlement and cracking of ceramic tile cove base starting at northeast corner of bathtub and running 12" east.
- (5.) Pointing mortar loose and/or missing around perimeter of tub.
- 6. One vertical crack 3½" long starting at top of window stool at east end of Window No. 12 and 20" west of east wall.
- 7. One vertical crack 5½" long, 2" below ceiling 25½" west of east wall.
- 8. West head of Window No. 12 recess cracked horizontal from window jamb to inside face of wall, extending above on a 45° angle 2½".
- 9. One horizontal crack at ceiling 2" long starting 232" west of east wall.
- 10. One horizontal crack at ceiling 5½" long starting 35" west of east wall.
- 11. One horizontal crack at ceiling 42" long starting 34" east of west wall.
- 12. One vertical crack 8" long extending from top of bullnose cap to window stool, 302" west of east wall.

West Wall:

- (1.) Northwest corner loose and cracked pointing mortar from top of tub to top of bullnose. Also one 3½ long vertical crack starting at top of bullnose running upward. Pointing mortar cracked and/or missing at top and bottom of bullnose cap entire width of wall.
- (2.) Pointing mortar missing at top of bathtub.
- (3.) Southwest corner pointing mortar cracked from top of tub to top of bullnose.
- (4.) Vertical joint of bullnose at southeast corner of tub pointing mortar cracked vertically, horizontally and in some places missing from floor to top of bullnose.
- (5.) Southwest corner near door jamb pointing mortar missing on vertical joint from floor to top of bullnose cap.
 - 6. 2 loose nails.

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- 7. One vertical crack 17%" long in northwest corner starting 12" below ceiling.
- 8. One horizontal crack at ceiling 16% long starting 7% north of south wall.
- 9. One vertical crack 7" long in southwest corner starting at top of bullnose.
- 10. Ceramic tile grout broken from finish floor to top of wainscot at intersection of bullnose jamb and west wall (near Door No. 6).

South Wall:

- (1.) Pointing mortar missing at top of tub.
- (2.) Shrinkage cracks along bottom of bullnose cap.
- (3.) Shower head piping loose.
- (4.) Shower curtain rod loose.
- (5.) At transition at corner of low and high tile wainscots 2" x 2" quirk miter ceramic tile fitting loose.
- (6.) At west head of Door No. 6 one 22" long horizontal crack.
- 7.) Pointing mortar missing at joint between vanity front and ceramic tile wainscot.
- *8. Door No. 6 (warped to the north at top.) Loose damaged knob has been replaced.
- 9. 4 loose nails.
- 10. One horizontal crack 2-3/4" long at top of ceramic tile above tub and 29" east of west wall.

Ceiling:

- 1. 12 loose nails.
- 2. One east-west crack 4½" long located 4½" north of south wall and 4" east of west wall.
- One horizontal crack extending east 1" from southeast corner of Heater Closet offset wall.

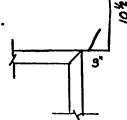
AREA 7 - SOUTH BEDROOM:

West Wall:

- 1. 19 loose nails.
- 2. One horizontal crack 1" long located 92" south of north wall 62" above floor.
- (3.) Near north corner two 2" long cracks at top of heating register.
- (4.) One 1/4" long crack at top center of Closet No. 10 light switch.
- (5.) Shrinkage cracks around perimeter of Closet Door No. 10 casing.
- (6.) Closet Door No. 10 difficult to latch.
- (7.) Baseboard loose at south end.

South Wall:

- 1. 19 loose nails.
- 2. One horizontal crack at ceiling 28" long starting at west wall.
- 3. One horizontal crack at ceiling 44" long starting 54" east of west wall.
- 4. One vertical crack 1" long starting 13" below ceiling and 13" west of east wall.
- 5. One vertical crack 5" long in southeast corner starting 10" below ceiling.
- 6. One horizontal crack 15%" long under stool of Window No. 6 starting at east wall.
- 7. One vertical crack ½" long extending down from Window Stool No. 6 64½" west of east wall.
- 8. One diagonal crack 1" long extending down from Window Stool No. 6 located 70" west of east wall.
- 9. One vertical crack 3½" long at west jamb of Window No. 6 starting ½" above window stool.
- 10. See sketch west head of Window No. 6.



- 11. One vertical crack 1" long starting at baseboard 47" east of west wall.
- 12. One vertical crack 4½" long starting 2" above finish floor in southeast corner.
- 13. One vertical crack 8" long starting 16½" above finish floor in southeast corner.
- 14. One vertical crack 4" long starting 26" above finish floor in southeast corner.
- 15. One vertical crack 3/4" long starting 46½" above finish floor in southeast corner.
- 16. One vertical crack 18½" long starting 49½" above finish floor in southeast corner.
- 17. Window No. 6 has B.B. hole in west glass.
- (18.) Baseboard ill fitting up to 1/8" wide gaps at top.
- (19.) One 1%" long 45° crack at bottom of sill at west jamb of Window No. 6.
- (20.) One 6" long horizontal crack under sill starting 12" east of west jamb of Window No. 6.
- *21. At west head of Window No. 6 there are short vertical, horizontal and diagonal cracks eminating from inside corner. These cracks have extended from 4½" to 10-3/4" up the wall.
- (22.) Wood stop at west jamb of Window No. 6 broken 123" below the top.
- (23) One horizontal crack 3" long 24-3/8" below head of Window No. 6 at west side.
- (24.) Shrinkage cracks around perimeter of window stops and at ends and bottoms of sills at Window No. 6.
- (25.) Southeast corner one 3/4" crack in soffit of Window No. 7 furring at head.

 East Wall:
- (1.) North head of Window No. 7 one 3½" long vertical crack turning at corner and running 3½" horizontal to window stop at the east.

- (2.) North sill of Window No. 7 one 2" long vertical crack running downward from bottom of sill and one 3" long vertical crack running up from top of sill.
- *3. The 5-3/4" horizontal crack at bottom of sill of Window No. 7 has extended South 3-1/4".
- (4.) One 2" long vertical crack starting at baseboard and 29-3/4" north of southeast corner.
- (5.) Window stops around perimeter of Window No. 7 and end of sills have slight shrinkage cracks.
- (6.) Baseboard ill-fitted along wall, many 1/8" wide gaps and poorly membered at south end.
- 7. 6 loose nails.
- 8. One vertical crack in southeast corner 29" long extending from baseboard to Window stool.
- 9. One horizontal crack 82" long starting in southeast corner under Window Stool No. 7.
- 10. One vertical crack 1" long starting at baseboard 58%" north of south wall.
- 11. One vertical crack 12" long starting at baseboard 632" south of north wall.
- 12. One horizontal crack at ceiling $54\frac{1}{2}$ " long starting $20\frac{1}{2}$ " north of south wall.

North Wall:

(1.) New wallpaper recently installed - poorly fitted vertical joints, poorly fitted at ceiling lines and poorly fitted and ragged at door casing.

Ceiling:

- 1. 72 loose nails.
- 2. Two short east-west cracks each 12" long located 2" and 4" east of west wall and 64" and 65" south of north wall.

- 3. One east-west crack 32" long 10" west of east wall 48" south of north wall.
- 4. One 3/4" crack extending northwest from northwest corner of light fixture.
- One north-south crack 1" long running north from south wall, 57" east of west wall.

AREA 10 - CLOSET:

Rough, unfinished walls and ceiling.

AREA 6 - NORTHEAST BEDROOM:

West Wall:

- 1. 21 loose nails.
- One vertical crack 1" long located 14½" below ceiling and 58" south of north wall.
- 3. One diagonal crack 12" long located 1" below ceiling 492" north of south wall.
- 4. One Y-shaped horizontal crack 1-3/4" long 15" below ceiling extending south from south head of Door No. 5.

South Wall:

- 1. 28 loose nails. (10 reported on initial inspection)
- 2. A series of vertical cracks one 1½" long, one 4½" long, and one 1½" long centered 27" below ceiling and 34" west of west jambs of Window No. 8.
 These cracks are along a stud line where nails were omitted and wall board is loose.
- 3. One diagonal crack 1-1/8" long l" below ceiling lla" west of east wall.
- 4. One horizontal crack 16-3/4" long starting 10½" west of east wall at ceiling.
- One vertical crack 1" long extending above from top of sill at west jamb of Window No. 8.
- 6. One horizontal crack '' long extending west from sill at west jamb of Window No. 8.

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- (7.) One horizontal crack 3" long 5-1/4" above baseboard starting 10-1/2" east of west wall.
- (8.) One horizontal crack 3-1/4" long at west head of Window No. 8 turning 45° upward 6".
- (9.) One vertical crack 3-1/2" long starting at top of sill on west Window No. 8 return located 4-1/4" north of window frame.
- (10.) One 45° crack 1-1/8" long at bottom of west end of sills of Window No. 8.
- (11.) Southeast corner one vertical crack 6" long starting at baseboard.
- (12.) 6-1/2" long shrinkage crack at bottom of sill of Window No. 8 starting at east wall.
- (13.) Shrinkage cracks at entire perimeter of steel sash of Window No. 8.

 North Wall:
 - (1.) Northwest corner one vertical crack 8-1/2" long starting 5-1/2" below ceiling one vertical crack 8" long starting 20-1/2" below ceiling one vertical crack 21-3/4" long starting at the baseboard and one vertical crack 26-3/8" long starting 36-7/8" above the baseboard.
 - (2.) At the west head of Window No. 11 there is one vertical crack 6-1/4" long turning horizontally 3-1/4" to the casing.
 - (3.) The 1-3/4" vertical crack starting 1/4" above west end of sill of Window No. 11 has extended 6".
 - (4.) Vertically along cripple stud at west jamb of Window No. 11 from baseboard to sill there is one vertical crack 3" long starting at baseboard, one vertical crack 1-1/2" starting 12-3/4" above baseboard, one vertical crack 11-1/2" long starting 17" above the baseboard.
 - (5.) There are horizontal shrinkage cracks along the bottom of Window No. 11 entire length of sill.
 - (6.) There is one vertical crack 13-1/8" long starting at baseboard in northeast corner.

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- (7.) Northeast corner at soffit of Window No. 10 furring one east-west horizontal crack 3-1/4" long located 4-1/2" south of window frame.
- (8.) There is one Y-shaped crack 2-1/2" long located 4-1/4" west of east Window No. 10.
- (9.) 31 loose nails. (Two were reported on the initial inspection.)
- (10.) One horizontal crack at ceiling 4" long starting 10" east of west wall.
- (11.) One horizontal crack at ceiling 1" long starting 14-3/4" east of west wall.
- (12.) One horizontal crack at ceiling 3-1/2" long starting 21" east of west wall.
- (13.) One vertical crack 8-1/2" long starting 3-3/4" below ceiling 70-1/2" west of east wall.

East Wall:

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- (1.) Shrinkage cracks at bottom of sill the entire length of Window No. 10 sill.
- (2.) One 1-1/4" long horizontal crack starting at bottom of south end of sill of Window No. 10.
- (3.) One 3-1/8" long horizontal crack at south head of Window No. 10 and extending 45° 2" up on the face of the wall.
- (4.) Shrinkage cracks at sill and jamb of Window No. 9.
- (5.) Window No. 9 at north head one horizontal crack 3-1/2" long turning 45° upward 3-1/2" on the wall.
- (6.) Shrinkage crack under sill of Window No. 9 16-5/8" long starting at south wall.
- (7.) One horizontal crack in south soffit of Window No. 9 2-5/8" long turning upwards in corner 3/8".
- (8.) Shrinkage cracks at north end of sill of Window No. 9.
- (9.) One horizontal crack 2-3/4" long 30-1/8" above sill on north jamb of Window No. 9.
- (10.) Two vertical cracks one 3/4" long and one 1-1/2" long at bottom of jamb starting at the sill of Window No. 9.

- (11.) One vertical crack 1-1/4" long starting at bottom of sill of Window No. 9
 20-1/2" north of south wall.
 - 12. 10 loose nails.
- 13. One vertical crack 14" long in southeast corner starting 1" below ceiling.
- 14. One diagonal crack 1-1/8" long starting 1/2" below ceiling 28" north of south wall.
- 15. One vertical crack 1" long 30" above floor 71" north of south wall.
- 16. One vertical crack in northeast corner 15" long starting at ceiling.
- 17. One vertical crack 4-3/4" long starting at ceiling 19-1/2" south of north wall.
- 18. One vertical crack 1-3/4" long starting at ceiling 30" south of north wall, turning south at ceiling and running horizontal 4".
- 19. One horizontal crack 2-1/4" long 1" below ceiling 33-1/2" south of north wall.
- 20. One horizontal crack at ceiling 6-1/2" long starting 7" north of south wall.
- 21. One horizontal crack at ceiling 22" long starting 22-1/2" north of south wall.
- 22. One horizontal crack 16-1/2" long at ceiling starting 49-1/2" north of south wall.

Ceiling:

- 1. 41 loose nails.
- 2. One east-west crack 3-1/2" long 14" west of east wall 31-1/2" south of north wall.
- 3. Three 3/4" diagonal cracks extending from northeast, southeast and southwest corner of light fixture.

AREA 9 - NORTHEAST BEDROOM CLOSET:

(Sliding Doors No. 12 easily displaced, hanging loose with no guides on bottom.)

EXTERIOR:

1. Mortar cracks at east and west ends of rowlock sill of Window No. 12. The east end extends down 3 courses; at west end, extends down 2 courses.

East Wall Utility Room, Area 16:

- (1.) One split board 8" long at head of Door No. 3 and one split board 10" long at bottom of door.
- (2.) Southwest corner fascia opened up.

Exterior Brickwork:

- (1.) In general used, cracked, broken brick, laid up with rough irregular mortar joints.
- (2.) West soffit at fascia unnailed and hanging down south of chimney.
- (3.) South brick in west Window No. 4 sill loose. Crack runs down 4", south 4" and down 2" from this loose brick.
- (4.) Window No. 4 sill at northwest corner of Kitchen erratic breaks in cement wash. This entire corner appears to have been repaired for some distance around these Windows Nos. 3 and 4.
- (5.) At bottom east corner of Bathroom Window No. 12 one head joint mortar missing.
- (6.) Window No. 11 sill at Northeast Bedroom window poorly constructed with open joints and broken brick.
- (7.) Window No. 9 sill of Southeast Bedroom window poorly constructed with open joints and broken brick.
- (8.) Window No. 8 sill of southeast window in Southeast Bedroom poorly constructed with open joints, broken and missing brick.
- (9.) Concrete stem wall where visible on south side along Area 15 is broken in several places and marked with green pencil. These breaks are located as follows - one 11" from brick offset, one 28" from brick offset, one 58" from offset, one 138" from offset, one 26'8" from offset (from east offset).

- (10.) South Screen Door No. 2 latch inoperative.
 - 11. Mortar separation between first and second brick from north end of sill under Window No. 7.
 - 12. A 7" vertical mortar separation at north inside corner between chimney and west wall of house separation starts at top of wall.
 - 13. Isolated short mortar separations at random locations.

ELECTRICAL

FINAL

The only difference in the electrical equipment between initial and final inspections was the right rear burner on the range had been repaired and was working properly. All wiring and wiring devices were checked and found to be operating satisfactorily. Lighting fixture diffusers were checked for cracks and no visible cracks were found.

INITIAL

The electrical system consists of a 3-wire overhead service to a 2" pipe service pole near the southwest corner of the fireplace. A conduit run extends from the service pole through the meter socket to a 2 pole, 3 wire, 60 amp., pull fuse service switch. A 2 pole, 30 amp., safety switch with 15 amp., plug fuse serves the air conditioning compressor located adjacent to the service pole. A 3-wire non-metallic sheathed cable extends from the service switch to a Federal Electric Products Company 100 amp., 120/240 volt distribution panel located in a Kitchen cupboard. The interior wiring is in electric metallic tubing, metal outlet and junction boxes with tubing joists and box connections made up with telescoping fittings; connections to the recessed fixtures are made up with flexible metallic conduit (BX). Certain circuits as noted on the drawing are in non-metallic sheathed cable.

The entire interior wiring system was found to be in fairly good condition, however several junction box covers were missing. The BX connection to the air conditioning compressor near the service pole and the control wiring to the inside unit are not in good condition and may fail during wet weather.

The compressor unit was not started but the inside air conditioning unit fan operated properly as did the gas heating unit and forced air fan in the heater section.

All receptacles and fixtures were checked and found to be working properly. All fixtures were in good condition.

The fixtures in rooms 2 and 3 are 32 watt ring type ceiling mounted fluorescent. Those in rooms 1, 5 and 6 are recessed type with square glass diffusers ceiling mounted. The bathroom bracket has a curved rectangular glass shield center supported by a knurled knob on a metal stud.

The front porch fixture is a ceiling mounted square brase finish frame with rippled glass sides and bottom.

The car port bracket has glass sides and open bottom. The closet, room 10, has a porcelain ceiling mounted lamp holder.

The garbage disposal unit operated properly as far as could be determined.

The oven burners operated properly but the right rear burner on the stove was burned out.

MECHANICAL

FINAL

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Inspection revealed no leaks in piping and no cracks in the plumbing fixtures.

INITIAL

KITCHEN - AREA #2

Sink - 2 compartment, ledge type, 21 x 32 built-in, with swing spout mixer valve - 8" centers. No cracks, no leaks.

Garbage Disposal - Right hand drain - G.E., in working order.

Dishwasher - Frame only - machine has been removed.

Hot Top (Stove) - 4-burner G.E.

Oven - Electric, G.E., with automatic timer.

Rough-in for automatic washer. No leaks - vented.

WATER HEATER - AREA #13

30-Gallon Fairway (Montgomery Ward), 30,000 BTU, 25.2 Gal. Rec. No leaks. Vent pipe disconnected in attic.

BATHROOM - AREA #8

<u>Lavatory</u> - Built in 18 x 21" with ledge mixer with pop-up waste. No leaks, no cracks.

Stool - U/R - One anchor bolt missing; two anchor caps missing. No leaks, no cracks.

Tub - Unidentified, Overrim - Fill diverter valve to shower grouting bad at ends in front. No cracks or chips; no drip.

HEATING & AIR CONDITIONING

Furnace - Area #11 - Southwest Mfg. Co. Model 802, 80,000 Btu input, thermostatic control. Rust - heavy - from condensation.

Cooling Coil installed above furnace. A separate fan was installed to blow into the coil without affecting the furnace. Return air for the air conditioning fan was drawn through a filter in an opening in the box plenum which the furnace was mounted on. A condensate sump pump was installed in the R.A. plenum to receive the gravity drainage from the cooling coil and pump the condensate to the outdoors.

The Condensate Unit air cooled, Tecumseh 3 HP; twin condenser fan. Unit located in yard at southwest corner of house. Refrigerant lines go up and across attic and down to coil. No insulation.

Duct Insulation was in fair condition on supply, although not up to standard for air conditioning. No insulation on return air piping.

DUCTWORK

3

A return air plenum for formed by a box stand for the furnace, covering the entire room. The adjoining rooms open directly to this plenum by way of baseboard grilles. Other return air inlets are connected by way of wall stud space - joist boxing in attic and round metal duct from joist box to joist box.

A supply plenum extends from the furnace to a point above the ceiling in the attic. The cooling coil was installed in this plenum, just above the furnace. The distribution piping was round metal pipe, installed from the plenum to the outlet locations.

The above system appears to have been installed as an afterthought with much to be desired in the way of design.

The return air plenum for the air conditioning (by-pass) was constructed of loose panels of sheetrock which had to be removed for service of fan, pump, and A.C. filter.

MONTHLY SUMMARIES OF INSPECTION FINDINGS ALL TEST HOUSES

(In chronological order: February - October 1964)

INDEX

						Page	1	<u> 10</u> .
February		Test	Houses	No.	1-4	2 &		3
March		Test	Houses	No.	1-4	4 8		-
April		Test	Houses	No.	1-4	6 δ	. 7	7
May		Test	Houses	No.	1-4	8 8	, 9	•
June		Test	Houses	No.	1-4	10 &	. 1	11
		Test	Houses	No.	5-11	12	?	
July		Test	Houses	No.	1-4	13 -	- 1	15
		Test	Houses	No.	5-11	16 &	. 1	17
August		Test	Houses	No.	1-4	18 -	. 2	20
		Test	Houses	No.	5-11	21 &	. 2	22
September	r -	Test	Houses	No.	1-4	23 -	. 2	25
• .	-	Test	Houses	No.	5-11	26 -		
October		Test	Houses	No.	1-4	29 -		31
•		Test	Houses	No.	5-11	32 -	_	

SUMMARY OF INSPECTION FINDINGS - FEBRUARY 1964 - PAGE 1 of 2

	Test House	No. 1	Test llous	e No. 2	Test Hous	Test Hous	Test House No. 4		
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	*No test	flights th Intersecti	is date. ons, at do	**A. Hairl	ine cracks	in paint a	at joints, ist and con asis to aff	at wall an	d

SUMMARY OF INSPECTION FINDINGS - FEBRUARY 1964 - PAGE 2 of 2

Test House No. 1

- B. Door and window glass panels BB shot, scored, and stressed per letter 2/22/64.
- C. Two (2) wall hung 12" mirrors cracked one in hall, one in SE bedroom. These mirrors have fiberboard backs glued on glass, and cracking occurred during night. May be due to thermal action. Investigation in process.

Test House No. 2

- B. Door and window glass panels BB shot, scored, and stressed per letter 2/22/64.
- C. Wall hung 12" mirror at top of stairs cracked. See Note 2 above.
- D. Grade around outside of house showing settlement.
- E. Grade at S.E. and N.E. corners continuing settlement.

Test House No. 3

- F. BB hole noted in each pane of glass in bottom row of living room window. Source unknown.
- F. BB hole noted in window of south wall, south bedroom. Source unknown.

Test House No. 4

G. Glass diffuser on ceiling light fixture in bedroom area #4 has 4-1/2" crack. May be due to heat caused by leaving lights on during day.

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SUMMARY OF INSPECTION FINDINGS - MARCH 1964 - PAGE 1 of 2

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SUMMARY OF INSPECTION FINDINGS - MARCH 1964 - PAGE 2 of 2

Test House No. 1

- A. Two (2) wall-hung 12" mirrors replaced.
- B. Nail heads appearing under paint coat of various gypsum board ceilings.
- C. No crack extensions around BB holes in window and patio door.

Test House No. 2

- D. General extension of existing interior paint cracks continues.
- E. One (1) wall-hung 12" mirror replaced.
- F. Screws holding metal threshold strip at door from kitchen to garage are coming out and threshold is loose.
- G. Cracks around BB hole in glass pane of main garage door have extended about 1/4". On March 13 cracks around BB hole in kitchen window appeared to have increased slightly (about 1/16").
- H. As of March 17 the paint at every wall junction in this house was cracked, with the following exceptions: (1) NE corner, closet #16;
 (2) E and W corners above cabinets in kitchen; (3) Interior corners of linen closet #5A.
- Simulated plaster paint coating on ceiling of kitchen continues extension of hairline cracks and faint discoloration continues.
- J. Sound on used TV set downstairs is out.
- K. Water 1" to 2" deep standing around front of house. Considerable extension of cracks and nail heads noted.
- L. Sound on TV set downstairs repaired by TV serviceman. Dirty tube socket found in audio circuit.
- M. Extension of hairline ceiling cracks in kitchen continues.
- N. Circuit breakers found "OFF" at start of inspection. Cause unknown.
- O. Pilot light out on furnace. Cause unknown.
- P. Considerable extension of cracks and nail head appearances noted.

Test House No. 3

- Q. Minor extension of existing hairline cracks in kitchen, hallway, and bathroom noted.
- R. Several new nail head appearances noted.
- S. Paint coat on gypsum board ceiling noted to be peeling in kitchen and dining area.

Test House No. 4

- I. New nail head appearances noted.
- U. Extension of various hairline cracks in paint coat noted.

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	,	SUMMAR	Y OF INSPECT	TION FINDIN	NGS - APRIL	1964 - PA	GE 1 of 2		
	Test Hou	se No. 1	Test Hous	se No. 2	Test Hous	se No. 3	Test Hous	e No. 4	
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SUMMARY OF INSPECTION FINDINGS - APRIL 1964 - PAGE 2 of 2

Genera1

- A. New nail head appearances through paint coats on gypsum board walls and ceilings of all houses continue sporadically.
- B. Extensions of existing (and appearance of some new) hairline cracks in paint coats on gypsum board walls and ceilings of all houses continue sporadically.

Test House No. 1

- C. Some settlement of grade evident around NE corner area.
- D. F.A.A. carpenter added wood blocking to frame around glass patio door to improve strain gage readings on glass panel.
- E. Small new crack (12" long) in wall tile above lavatory in bathroom.
- F. One new, small crack on south exterior at seam joint of brick and frame siding below mailbox; another nearby on south exterior just west of window #2.

Test House No. 2

- G. Sound on used TV set downstairs is out again.
- H. Kitchen window (top half, lower pane) broken by ADT installation mechanic.
- Hairline crack extension (16" long) in SE corner of tile in upstairs bath.
- J. Slight (1") crack extension from BB hole in kitchen window.
- K. Wood block between turnbuckle and glass of garage door fell out.

Test House No. 3

- L. At 11:30 A.M., used TV set shorted out and tripped circuit breaker.
- M. Paint coat on gypsum board ceiling in kitchen and dining area continues to peel.
- N. ADT installation made.

- O. Picture on used TV set is on and off.
- P. Sewer backing up through drain of utility room.
- Q. ADT installation made.
- R. Picture out on used TV set.
- S. Small (1") crack at edge of window #6 in NE bedroom opposite screw-eye in frame. Screw-eye installed by ADT mechanic during ADT installation.

		SUMMAR	Y OF INSPEC	TION FINDI	NGS - MAY 1	964 - PACE	1 of 2		
	Test Hous	se No. 1	Test Hou	ise No. 2	Test Hous	e No. 3	Test Hous	se No. 4	
Date	Struct.	Furn.	Struct.	Furn.	Struct.	Furn.	Struct.	Furn.	Date
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SUMMARY OF INSPECTION FINDINGS - MAY 1964 - PAGE 2 of 2

General

- A. New nail head appearances through paint coats on gypsum board walls and ceilings of all houses continue sporadically.
- B. Extensions of existing (and appearance of some new) hairline cracks in paint coats on gypsum board walls and ceilings of all houses continue sporadically.

Test House No. 1

- Ca. Lower left hand pane of east window (window #5) of northeast bedroom broken from inside between 11:45 A.M. and 12:05 P.M. (lunch period).
- D. Vertical hold on new TV set picture (@ Channel 5) lost at time of boom from test flight #7. Simple adjustment of vertical hold control restored normal picture.
- E. Cracks around BB hole in west window of living room extending slightly.
- Cb. Broken pane of window #5 replaced.
- F. Pilot light on gas furnace out. Cause unknown.
- G. Front screen slammed at 1400 hours and part of the east side of front door frame came loose. Appeared to have been previously forced open and nailed back.

Test House No. 2

- H. Owner of house installed screen on window of downstairs bath. Other screens to be installed later.
- I. Crack from BB hole in kitchen window extended 1/2".
- J. Crack from BB hole in kitchen window extended 1/8".
- K. Garage flooded from rain storm of preceding night.
- L. Vertical crack from burglar alarm at N wall E of the NW corner of the house extended 1" into brick above it. Several bricks on SW corner showing cracks from settling.
- M. Turned on "summer switch" of central heating system. Fan runs continuously.
- N. Sound on used TV set downstairs continues to be faulty.
- O. Plastic trim on shadowbox mirror in living room is "checking".
- P. General light rain this date. Water standing along front of house.

Test House No. 3

- Q. Paint peeling (previously reported) continuing in three areas of living room ceiling.
- R. Used TV set returned from repair shop. See April 5 report.
- S. Paint peeling (previously reported) continuing in three areas of dining area ceiling.
- T. Paint peeling (previously reported) continuing on ceiling of kitchen.

- Ua. Upper pane of storm window on north window of kitchen found broken this A.M. Cause attributed to severe rain and wind storm in area during previous night.
- V. Used TV set repaired by service man. See April 5 and 17 report.
- Ub. Broken glass of storm window replaced this date.
- W. Handle of soap dish above bathtub broken accidentally. (By people, not booms.)

	Test Hous	e No. 1	Test Hous	e No. 2	Test Hous	se No. 3	Test Hous	e No. 4	
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SUMMARY OF INSPECTION FINDINGS - JUNE 1964 - PAGE 2 of 2

General

- A. New nail head appearances through paint coats on the gypsum board walls and ceilings of all houses continue sporadically.
- B. Extensions of existing (and appearance of some new) hairline cracks in paint coats on gypsum board walls and ceilings of all houses appear sporadically.

Test House No. 1

- C. Crack in west side of wood framing of built-in oven.
- D. China hutch doors opened for 1320 flight. Some movement in crystal stems appears to be a function of the degree of flatness of the base.
- E. House and yard sprayed with chlorodane insect killer.
- F. Exterior Masonry crack on east side at southeast corner. Crack starts on level with brick window ledge and extends down 3".
- G. Exterior Crack at intersection of wood with top brick trim extended at corner of front entrance.
- H. Exterior Outside top framing of patio door developed cracks along east side and center.
- Personnel removed cables from attic. Considerable increase noted in new nail head appearances on ceilings.

Test House No. 2

- Ja. 2" tile grout crack extension NE corner of bath No. 5.
- J_{b. 1/4"} tile grout crack extension NE corner of bath No. 5.
- J c. 2" tile grout crack extension NE corner of bath No. 5.
- Jd. Tile grout crack extension NE corner of bath No. 5 24" up from previous bottom mark and 5" down from previous upper mark.
- K. TV in operation for approximately 35 minutes with continuous static.
- L. New audio output tube installed in TV insuring proper operation.
- M. TV in upstairs has defective picture tube. No repairs made.
- N. Mirror at top of stairs replaced with new one. Cracked mirror to be delivered to PPG.
- O. Two shingles on south slope of roof appear to be damaged by wind.
- P. Point Magoo people to be in and out of house for next several days.
- Q. Plywood molding strip below kitchen range is off.

Test House No. 3

- R. Paint peeling on kitchen ceiling near west furring.
- S. TV fails to produce sound. Picture operates okay.

- T. TV became inoperative at 1330 hours.
- U. TV repaired.
- V. TV picture functions sporadically. Sound is okay.
- W. Upper glass of front entrance storm door broken due to wind slamming door at 1306 hours.
- X. General Adjustment Bureau representative inspected roof for damage from previous wind and rain storms.

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B. No boom heard.

SUMMARY OF INSPECTION FINDINGS (A) - JULY 1964 - PAGE 1 OF 3

	Test Hous	e No. 1	Test House No. 2		Test House No. 3		Test Hous	ise No. 4	
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SUMMARY OF INSPECTION FINDINGS (A) - JULY 1964 - PAGE 2 OF 3

General

- A. New nail head appearances through paint coats on the gypsum board walls and ceilings of all houses continue sporadically.
- B. Extension of existing (and appearance of some new) hairline cracks in paint coats on gypsum board walls and ceilings of all houses appear sporadically.

Test House No. 1

- Ala. A 2" vertical crack has appeared in the northeast corner of the bathroom between the tile and bathtub.
- Alb. A 1/2" crack extension in the tile grout of the northeast corner of the bathroom.
- Bla. Pilot light on hot water heater went out yesterday and today.
- Bl. F.A.A. men cleaned water heater pilot light today. Operation now normal.
- C1. Crack has appeared in grout of west end of window No. 7.
- D1. Furnace pilot light out.
- El. Picture in room No. 9 found broken on floor. It is believed that the tape holding the picture came loose during the night and the picture fell. Tape holding instrument cables to walls also coming loose.
- F1. Exter. Expansion of vertical mortar crack in lower east corner of sill of window No. 8.
- Gl. A 1/16" extension of BB hole crack in window No. 9.
- H1. Crack in grout of east mount of towel bar.
- II. TV antenna broken during previous night.
- J1. Exterior extension of mortar crack at upper left corner of window No. 6 of bedroom No. 6. This item is adjacent to a defect noted on the original inspection.
- K1. Broken rung on TV stand. The rung was probably stepped on.

- A2. Water dripping from tank overflow of water closet.
- B2. Exterior A 2" vertical mortar crack at south end of sill on window No. 3.
- C2. Refrigerator and TV in upstairs moved to Test House No. 5.
- D2. Exterior A 2" mortar crack at the north end of the sill of window No. 3.
- E2. General Note: There are four (4) windows upstairs. There are hairline wall cracks at 11 of the 16 corners.
- F2. The wall hung picture on the east wall just north of the southeast corner of bedroom No. 3 was found on floor. It is believed that the tape mounted hanger came loose.
- G2. The picture on the west wall of room No. 3 has fallen to the floor due to tape failure.
- H2. Exterior Caulking is dehydrating rapidly. Numerous checks and seal separations apparent.
- 12. Bathroom No. 17 tile grout chipping.
- J2. Exterior Mortar separation in middle of sill of window No. 11.

SUMMARY OF INSPECTION FINDINGS (A) - JULY 1964 - PAGE 3 OF 3

Test House No. 3

- A3. Plaster is falling off around a nail head found on the original house inspection on the south wall of bedroom No. 6.
- B3. Air conditioning unit quit 8 July. It was put back in operation on 9 July, but quit again at approximately 1200 hours on 9 July.
- C3. F.A.A. men repaired air conditioner. Operation is now normal.
- D3. F.A.A. men worked on air conditioner.
- E3. Condensation from the air conditioning unit has soaked the rug in the area of the air conditioning unit in the hall and in bedroom No. 7.
- F3. F.A.A. men repaired air conditioner at approximately 1100 hours.
- G3. One fan motor on air conditioning unit burned out.
- H3. F.A.A. men repaired air conditioner between 0930 and 1130 hours.
- 13. Operator had to break night latch chain on back door in order to enter house this A.M. Front door cannot be unlocked from outside.
- J3. Horizontal crack along top of tile where wall and tile meet in room No. 8.
- K3. Window trim on west side of window No. 6 has new crack 1/2" long.

- A4. Storm door glass replaced in south (front) door. See June 19 report.
- B4. Exterior Mortar crack starts under north jamb of window No. 4 and extends down three courses of brick.
- C4. Exterior Foundation cracks start at brick sill 5" and 13" north of north jamb of window No. 9 and extend down.
- D4. Exterior Foundation crack starts at brick sill 7'8" south of north-west corner and extends down 0'11".
- E4. Exterior Foundation crack starts at brick sill 9'3" south of northwest corner and extends down 0'6".
- F4. Glass removed from storm doors and replaced with screens.

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SUMMARY OF INSPECTION FINDINGS	(B)	- JULY	1964	- PAGE	1	of	2
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Test Test Test Test Test Test Test									
	Test Hou	se No. 5*	House	House	House	House	House	House	
			No. 6	No. 7	No. 8	No. 9	No. 10	No. 11	
a)			(N	.W. 19th St	.)———	(Park Pl.)	(Norman)	(Norman)	
Date	Struct.	Furn.							Date
	Struct.	ruin.			Occupied R	esidences -			e
1						†	† P	† P	1
2			+	+	†	†		Week	2
3							† P		3
4	******						I F	2nd	
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5					,				5
6									6
7			†	†	+		† P	† P	7
8			·				' .		8
\vdash			ч		†	† M		Week	\dashv
9			† G, H	† <u>I</u>	†	+	† P		1 1
10	A, B		†	†		† N	† Q	+ Sa, P 2	10
11	В								11
12	А, В								12
13									13
-	A,B,D								
14	B, E		† H	+ J, K	† A		† P ·	+ T	14
15	В		t	†	†	† O	† P	† P a y	15
16	В		† C	† C	† C	† A, C	† C, P	† C, P 😕	16
17	A					†		4 th	17
18								72	18
	В								
19	A, B								19
20					†	† B	† P	+ P	20
21	A, B		† A	† A	† L	+			21
22	·····		†	†			† A	t p e	22
23	A, B						' A	- B	1
	Α		+	† A	† <u>A</u>	†		th 5th	23
24	В						† R	+ P 2	24
25	A, B						<u>[</u>		25
26	A, B								26
27					† A	†	† P	+ c 5	27
28	В				' A		, <u>r</u>	† S _b , Р	
-+			† A	+		+		We e H	1 1
29	A, B		† A	†				† P _ 5	29
30	А, В		†	+	+	†A (LAST	DAY OF SONI	C BOOMS) %	30
31	A, F						+	+	31
		ouse No. 5	inspected	laily start	ing July 6				<u> </u>
\dashv									-
	T Days W	ien house w	as inspect	ea.			l	<u> </u>	

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SUMMARY OF INSPECTION FINDINGS (B) - JULY 1964 - PAGE 2 of 2 V

General

- A. New wall cracks have appeared.
- B. Extension of existing wall cracks have appeared.
- C. Photos of selected house interiors by F.A.A. photographer.

Test House No. 5

- D. Window in bedroom No. 12 cracked in lower right corner.*
- E. South window in dining room has two cracks in the top pane. It is believed that these cracks occurred between 7 July 1964 and 9 July 1964.**
- F. Intermittent circuit in one light of chandelier in parlor.

Test House No. 6

- G. Check points set through house show no movement.
- H. Crack in south portion of living room ceiling appears to have widened.

Test House No. 7

- I. Wallpaper loosening along cracks and bulging from wall in bath and kitchen.
- J. A water evaporative cooler runs part of the day. It is believed that this has some action on the wallpaper near cracks.
- K. Paper loosening from wall over tub in bath.

Test House No. 8

L. The 9:00 A.M. boom was clear and distinct with window rattle.

Test House No. 9

- M. The 1:00 boom caused heavy window rattle and vibration which was felt in bedroom No. 11.
- N. The 11:00 and 11:20 booms were sharp and distinct in bedroom No. 11. The vibration from the boom appears to cause movement in the cracks and minute particles of plaster to break off at the edge of the crack.
- O. Bedrooms 10 and 11 appear to be the only part of the house where any boom effect can be noted. During the 11:20 boom vibration was felt and minute pieces of plaster appeared to be breaking away at the cracks.

Test House No. 10

- P. No boom heard.
- Q. Cracks around 220 volt receptacle in dining room caused by workmen installing receptacle for air conditioner.
- R. New cracks noted in dining room. The cracks were probably caused by change in temperature due to installation of new air conditioner.

Test House No. 11

- a. Occupants have not heard any booms.
- Sb. Occupants have not heard any booms past week.
- T. The 9:00 boom was a very low rumble like distant thunder.

*Inspection error. Crack present at initial inspection.

**Pane removed and submitted to Pittsburgh Plate Glass
Company laboratory for analysis. Cracks due to causes
other than shock loading.

SUMMARY OF INSPECTION FINDINGS (A) - AUGUST 1964 - PAGE 1 OF 3

	Test House No. 1		Test House No. 2		Test Hous	e No. 3	Test House No. 4			
Date	Struct.	Furn.	Struct.	Furn.	Struct.	Furn.	Struct.	Furn.	Date	
1	†A,B		† A,B		† A,B,A3		† A,B		1	
2	†		+		† B3		† A4		2	
3	† A1		† A2		t		+		3	
4	† B1		t	В2	†	-	†		4	
5					+		+ B4,C4,D4	Week	5	
6	†		† C2						6	
7								27th	7	
8									8	
9									9	
10							+ F4,G4,H4	E4	10	
11									11	
12	+ C1		+ D2	E2	+ C3,A3		t	Week	12	
13	+		+		t		+		1	
14	+		+		+ D3			28th	14	
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21	+		t		† A3		t	29 th	21	
22									22	
23									23	
24	†		†		† E3,A3		† K4		24	
25					† A3		† M4,N4,04	L4	25	
26	† E1,F1		+		† A3		+ P4	Week	26	
27								M.	27	
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									+	
\vdash	† Days w	nen house	was inspect	ed.	1					

SUMMARY OF INSPECTION FINDINGS (A) - AUGUST 1964 - PAGE 2 OF 3

General

- A. New nail head appearances through paint coats on the gypsum board walls and ceilings of all houses continue sporadically.
- B. Extensions of existing (and appearance of some new) hairline cracks in paint coats on gypsum board walls and ceilings of all houses appear sporadically.

Test House No. 1

- A1. Exterior Mortar separation of brick sill 18" East of West edge of South window in bedroom No. 9.
- B1. Hole in West wall of living room with concentric crack South of it created accidentally by F.A.A. personnel.
- Cl. Exterior Mortar separation over West support of decorative ledge under garage window.
- D1. Tile grout crack at South edge of mirror in bathroom.
- El. Mortar crack in first course of bricks above patio slab West of patio door.
- F1. Water ran into garage from joint between house slab and garage slab.
- G1. Two sample mirrors were scratched and hung on West wall of living room and West wall of bedroom No. 9.
- H1. Refrigerator will not run for more than 10 seconds.

Test House No. 2

- A2. Horizontal taped seams of junction of dormer ceiling with wall and ceiling are occurring at innumerable and random locations.
- B2. Picture found on floor of bedroom No. 3. Tape mounted hanger failed.
- C2. Observation: A total of five (5) new nailhead cracks have been noted in the past week.
- D2. Buzzer on oven timer was going when inspector entered house.
- E2. Continuous moderate background static on radio.
- F2. Exterior Mortar separation between first and second bricks from East end of living room window sill.

Test House No. 3

- A3. Air conditioning unit leaking water on rug in hall.
- B3. Air conditioning unit turned off at 0820 hours.
- C3. Inside screen on kitchen window removed.
- D3. Air conditioning unit repaired by F.A.A. Unit now in operation.
- E3. Exterior Mortar separation on both sides of second brick West of East side of brick sill on window No. 11 in bedroom No. 6.

- A4. A 6" crack at intersection of tile and wall over sink in bathroom.
- B4. Paint checking in bathroom.
- C4. Exterior Nine vertical mortar separations between bricks on sill for bathroom window.
- D4. Exterior Vertical mortar separation in middle of sill of living room window.
- E4. T.V. picture fades intermittently during warmup. Operation okay after five to ten minutes.
- F4. Crack in upper left corner of lower pane in lower sash of bathroom window.
- G4. Vertical crack in concrete above foundation vent and beneath windows of bedroom No. 6 and kitchen (exterior).
- H4. Exterior Four vertical mortar separations in sill of kitchen window.
- I4. Exterior Horizontal mortar separation beneath East edge of kitchen window.

SUMMARY OF INSPECTION FINDINGS (A) - AUGUST 1964 - PAGE 3 OF 3

Test House No. 4 (Continued)

- J4. Exterior Numerous hairline cracks in patched areas of foundation along West wall.
- K4. Exterior Glazing on garage window is dried and falling off.
- L4. Static on T.V. sound during warmup. Distinct changes in volume after warmup.
- M4. Mortar crack beneath sill of bathroom window extended down through one brick (Exterior).
- N4. Exterior Mortar crack beneath North side of East window in bedroom No. 4 extended down through three more brick courses.
- 04. Exterior Mortar crack 38" above stemwall 12" West of garage door.
- P4. Exterior Loose mortar on bottom tread of back steps from masonry crack reported on original inspection.

SUMMARY OF INSPECTION FINDINGS (E) - AUGUST 1964 - PAGE 1 OF 2

Test House No. 5 No. 6 No. 7 No. 8 No. 9 No. 10 No. 10 No. 11				Test	Test	Test	Test	Test	Test	_
No. 6 No. 7 No. 8 No. 9 No. 10 No. 11		Test House	No. 5							
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Struct. Furn. Occupied Residences		<u>.</u>		(N.1	1. 19th St.)———	(Park Pl.)			
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1	Da	Struct.	Furn.			-Occupied	Residences-		-	Date
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18	16									16
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19	18	I A,D		+	+			<u> </u>	<u> </u>	18
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21	20	I A,D					<u> </u>		1 - 3	20
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23	ļ	† A,B	· · · · · · · · · · · · · · · · · · ·				T	T	T	41
24						†				22
25	23			1				ļ		23
25	24	† A.B				†	†	†	†	24
26 † B, K	25			†	+	1				25
28	26	† в. к						+	† 7	<u>لا</u> 26
28	27	1					†		1	_1
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30 31 + A,B,M	29					† A			•	29
I A,B,m	30									30
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						······	<u></u>	- 	· 1	

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SUMMARY OF INSPECTION FINDINGS (B) - AUGUST 1964 - PAGE 2 OF 2

General

- A. New wall cracks have appeared.
- B. Extension of existing wall cracks have appeared.

Test House No. 5

- C. Wallpaper split horizontally on South wall of closet 14B to join Southeast corner.
- D. Plaster chips and dust found beneath ceiling cracks in living room.
- E. Checking in patched area to the right of stairs in foyer.
- F. Window latch on North window of group on West wall in dining room broke.
- G. Paint and plaster peeling off in Northeast corner of dining room.
- H. Faint smell of gas in bedroom No. 12.
- . I. Disintegration of plaster in spalled area in bath No. 5 and bath No. 13.
- J. Window shade broken during inspection in closet 15A.
- K. Wallpaper hanging loose on South wall of closet 16A.
- L. Small particles of paint found on floor under crazed area on ceiling in bedroom No. 15.
- M. Paint peeling off North wall in dining room.

Test House No. 6 - No other changes noted.

Test House No. 7 - No changes noted.

Test House No. 8 - No other changes noted.

Test House No. 9

N. Wallpaper badly wrinkled in Northwest corner of foyer.

Test House No. 10 - No other changes noted.

- O. Water from washer stained rug in living room when hose broke.
- P. Window installed in West wall of shop.

SUMMARY OF INSPECTION FINDINGS (A) - SEPTEMBER 1964 - PAGE 1 of 3

	Test Hous	e No. 1	Test Ho	use No. 2	Test Hous	se No. 3	Test Ho	use No. 4	
Date	Struct.	Furn.	Struct.	Furn.	Struct.	Furn.	Struct.	Furn.	Date
ì	†A,B,A1		† A,B,A2		+ #3 ^B ,23 ³ ,		+A,B,B4	A4	1
2								Week	2
3	†		†	-	+ C3		†	W	3
4								ls	4
5									5
6			·						6
7	† B1		†		†				7
8	†	·.	†		†	D3	†		8
9	†D1,E1,F1		† C2	В2	+		† C4	D4 -4	٤
10							†E4,F4	We	10
11								32nd	11
12								32	12
13									13
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15	†B1	G1	† D2	E2	+	E3	+	G4 .×	1:
16	†		+		†		+	G4	10
17								3rd	17
18								- E	18
19									11
20									20
21	†		†		+F3		†		21
22	†B1,H1	11	†		t		†		2:
23								-4	2:
24	†	J1	†G2	F2	†G3		†H4	14	24
25								37£	2
26								3,5	20
27									27
28	†L1	K1,M1	†	Н2	†		†K4,L4	J4	28
29									29
30	+	N1,01	I2,J2				+M4,N4		30
X									\triangleright
			,					·	Γ
	† Days whe	n house w	as inspecte	d					
				Л.			<u> </u>	.1 .,,	

SUMMARY OF INSPECTION FINDINGS (A) - SEPTEMBER 1964 - PAGE 2 of 3

General

- A. New nail head appearances through paint coats on gypsum board walls and ceilings of all houses continue sporadically.
- B. Extensions of existing (and appearance of some new) hairline cracks in paint coats on gypsum board walls and ceilings of all houses appear sporadically.

Test House No. 1

- Al. Exterior A 4" horizontal extension of diagonal crack under east edge of window sill of bedroom No. 2.
- B1. Water and sand continue to seep on garage floor from beneath house slab.
- Cl. Exterior Mortar crack underneath west end of garage window sill.
- D1. Exterior Horizontal mortar crack has extended the length of one brick beneath sill of east window of bedroom No. 9.
- El. Exterior Norizontal mortar separation under top brick at upper right hand corner of garage door.
- F1. Mortar separation at east support for decorative shelf beneath garage window.
- Gl. TV inspected by TV repairman.*
- H1. Circuit breaker switch No. 7 on "off" position when house was entered this A.M.
- Il. Electric clock in kitchen stopped.
- Jl. All wall hung lamps, mirrors, and pictures; and all glassware placed on tables in living room. (See note on Page 25.)
- Kl. All furnishings that were placed in living room have been placed in their original or a similar place.
- Ll. Bathroom sink full of water.
- M1. One hanger clip of wall hung double picture in living room has come loose.
- N1. Double picture removed from wall in living room.
- Ol. Hanger failed on wall hung picture in bedroom No. 2.

Test House No. 2

- A2. Exterior Average grass height approximately 3'0".
- B2. A.D.T. burglar alarm system removed.
- C2. Paint flaked off from previously reported horizontal crack possibly caused by A.D.T. personnel removing equipment.
- D2. Plastic electric outlet cover plate warped from heat of stove in kitchen.
- E2. T.V. repairman inspected T.V.*
- F2. All wall hung lamps, mirrors, and pictures; and all glassware placed on living room floor along west wall. (See note on Page 25.)
- G2. Exterior Grass has been cut.
- H2. All furnishings that were placed in living room have been placed in positions similar to their original.
- 12. Exterior Caulk around windows is dry and cracking.
- J2. Exterior Numerous checks in exterior siding.

- A3. Air conditioning unit turned off at 2:10 P.M. today.
- B3. Vertical tile grout crack at south edge of bathtub.
- C3. Carpet saturated with water from air conditioning unit condensation.
- D3. A.D.T. burglar alarm system removed.
- E3. T.V. inspected by T.V. repairman.*
- F3. Vertical tile grout crack approximately 16" long west of door of bathroom.
- G3. Exterior Vertical mortar separation under south end of sill beneath kitchen window on west wall.

SUMMARY OF INSPECTION FINDINGS (A) - SEPTEMBER 1964 - PAGE 3 of 3

Test House No. 4

- A4. Electric clock in living room stopped.
- B4. Exterior Mortar separation at south end of garage window sill.
- C4. Exterior Vertical mortar crack thru one brick course underneath south end of sill of east window in bedroom No. 4.
- D4. A.D.T. burglar alarm system removed.
- E4. Exterior Weathered chip fell off edge of brick located eight courses above stem wall and four bricks north of southeast corner of garage.
- F4. Exterior Sheet metal weather cap at southwest corner of garage is loose.
- G4. T.V. inspected by T.V. repairman.*
- H4. Exterior Horizontal mortar separation extended two bricks at upper right corner of garage window.
- 14. All wall hung lamps, mirrors, and pictures; and all glassware placed in living room. Later returned to original positions. (See note below.)
- J4. Clock in-living room started by moving hands.
- K4. Exterior Horizontal mortar separation along top of stem wall starts at garage door and extends 14" west.
- L4. Exterior Portion of concrete patch along top of stem wall west of back door to garage has fallen off.
- M4. Paint is flaking from bathroom ceiling.
- N4. Paint and caulking cracks have become worse during month.
 - * See separate letter report dated September 23, 1964 on T.V. inspections.

NOTE: Furnishings in Test Houses No. 1, 2 & 4 had been prematurely assembled for removal due to misunderstanding of date on work order.

SUMMARY OF INSPECTION FINDINGS (B) - SEPTEMBER 1964 - PAGE 1 of 3

	Test Ho	use No. 5	Test House No. 6	Test House No. 7	Test House No. 8	Test House No. 9	Test House No. 10	Test House No. 11	
Date	Struct.	Furn.	(N.	W. 19th St		(Park Pl.) Residences	(Norman)	(Norman)	Date
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1	† A,B		†	†		†		<u> </u>	\vdash
2	†A,B		†	† ប			† HH	†	2
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4							† II	31st	4
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6									6
7			†	+	†	†			7
8	†A,B					† AA	†	†	8
9	†A,B,C		†	†	†		†	+ *	9
10	†A,B,D,E		†	†	†	†BB,CC		Week	10
11							†		$\overline{}$
12								32nd	12
13									13
14	†F,G					†	†	+	14
15	†A,B,I,J	Н	†	†		+			15
16	†A,B		† T	†	†		† JJ	+ ,	16
17	11,5			†	†			Week	17
18			†	T	<u> </u>			3 7	18
19							†	33rd	19
20					+	<u> </u>		``	1
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21	+ A, B, K							<u> </u>	21
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25							†	t 5	25 26
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	† Days	vhen house	was inspec	ted.					$\left\ \cdot \right\ $
								*	

SUMMARY OF INSPECTION FINDINGS (B) - SEPTEMBER 1964 - PAGE 2 of 3

Test House No. 5

- A. New wall cracks have appeared.
- B. Extensions of existing wall cracks have appeared.
- C. Exterior Blisters in mortar on foundation under parlor window.
- D. Vertical paper split 10" long north of windows in bedroom No. 14.
- E. Exterior Mortar on foundation continues to disintegrate. Situation particularly severe under dining room windows.
- F. Plaster dust on mantle from crack in southeast corner of living room.
- G. Pieces of plaster on water closet and floor from crazed area above water closet and heater in bath No. 5.
- H. T.V. inspected by T.V. repairman. See separate letter report dated September 23, 1964 on T.V. inspections.
- I. Open seam in wallpaper of bedroom No. 14.
- J. Wallpaper crack 4" long north of window in bedroom No. 14.
- K. Pieces of plaster on water closet from crazed area above water closet in bath No. 5.
- L. Piece of plaster approximately 6" square fell from wall above water closet in bath No. 5
- M. Small pieces of plaster fell from wall in kitchen.
- N. An above average number of 29 cracks and extensions noted.
- Bulges in plaster of east wall of bath No. 5, east wall of bedroom No. 12, and south wall of bath No. 13.
- P. Window shades are gradually being ripped to shreds in the course of window inspections.
- Q. The occurrence of ceiling cracks has been greater this month.
- R. "Blister" or "soft spots" have appeared on the mortar covered foundation this month.

Test House No. 6

- S. Wall crack approximately 4" long above door in dining room.
- T. Ceiling crack has extended 12" in dining room.

Test House No. 7

- U. Wall crack starts at top of window and runs up to ceiling in bathroom.
- V. Wall crack starts at floor and extends up 32" on south wall of dining room.

Test House No. 8

- W. Wall crack on north wall of dining room extends from top of door to ceiling.
- X. Wall crack on east wall of bedroom No. 7 extends from top of center window to ceiling.
- Y. Wall crack on east wall of bedroom No. 8 extends from top of south window to ceiling.

- Z. South wall crack in bedroom No. 11 has extended 10".
- AA. West wall crack in dining room has extended to ceiling.
- BB. East wall crack from window to floor.
- CC. West wall crack extends from light switch to wall heater.
- DD. Cracked pane in east window on south wall of kitchen.
- EE. Horizontal wall crack on north wall of bedroom No. 11 runs from window to
- FF. Vertical wall crack on west wall extends from top of window to ceiling.
- GG. Vertical wall crack on south wall of living room extends from top of door to ceiling.

SUMMARY OF INSPECTION FINDINGS (B) - SEPTEMBER 1964 - PAGE 3 of 3

Test House No. 10

- HH. Horizontal south wall crack has extended to meet vertical crack in dining room.
- II. Hairline north wall cracks have appeared in patched areas in bathroom.
- JJ. East wall crack in bathroom.
- KK. Horizontal east wall crack 12" long in bedroom No. 14.

Test House No. 11 - No changes noted.

SUMMARY OF INSPECTION FINDINGS (A) - OCTOBER 1964 - PAGE 1 of 3

	Test Hous	e No. 1	Test House No. 2		Test Hous	se No. 3	Test House No. 4		
Date	Struct.	Furn.	Struct.	Furn.	Struct.	Furn.	Struct.	Furn.	Date
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3								35th	3
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5	†	<u>A1</u>	† B2		† A3		†		5
6									6
7	†B1,C1		†		† B3		+ B4,C4	Week	7
8									8
9	+		+	<u> </u>	+ C3,D3		† D4	36 th	9
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11									11
12	†D1		+		†		+ E4,F4		12
13									13
14	†E1,F1,G1		†		†		†	Week	14
15	†H1,I1		† C2		+	<u>-</u>	† H4		15
16								37th	16
17									17
18									18
19	†	J1	†		† F3	E3	† I4		19
20									20
21	†K1	L1	+		† G3		† J4	Week	21
22	†		+ E2	D2	†		+ K4		
23								38th	23
24									24
25									25
26	†M1		†		†		+		26
27	†		†		+		†	×	27
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29	+		† F2		†		+	1.4 ,u <u>1</u> 68	29
30								39	30
31									31
				END OF	PROGRAM				
	† Days wh	en house	was inspecte	d.					

SUMMARY OF INSPECTION FINDINGS (A) - OCTOBER 1964 - PAGE 2 of 3

General

3

A. New nail head appearances through paint coats on gypsum board walls and ceilings of all houses continue sporadically.

B. Extensions of existing (and the appearance of some new) hairline cracks in paint coats on gypsum board walls and ceilings of all houses appear sporadically.

Test House No. 1

- Al. Inspector started electric clock which was unplugged by unknown party.
- B1. Exterior A 3" extension of horizontal mortar separation under top course of bricks adjacent to north end of garage door.
- C1. Exterior An 8" horizontal offshoot of vertical mortar separation below sill of north window of bedroom No. 6.
- D1. Exterior A 7" horizontal mortar separation under second course of bricks from top of wall 4" east of north window of bedroom No. 6.
- E1. Exterior A 20" extension of masonry crack 10" below sill of north window of bedroom No. 6.
- F1. Exterior A 10" horizontal mortar separation below sill of east window of bedroom No. 6.
- G1. Exterior A diagonal masonry crack below east window of bedroom No. 6.
- H1. Exterior Horizontal and vertical mortar separations enclose first and second bricks south of northwest corner of top course of bricks.
- II. Exterior Extension of diagonal crack at lower left corner of living room window now terminates on grade.
- J1. Inspector started electric clock which was not running.
- K1. Exterior Vertical mortar separation below window of bedroom No. 6.
- L1. Wall mounted telephone removed during inspection.
- M1. Exterior Vertical mortar separation between first and second bricks west of southeast corner below window sill level.

Test House No. 2

- A2. Extension of existing (and appearance of some new) seam splits at intersection of walls and ceilings appear sporadically.
- B2. Exterior Horizontal mortar separation along top of stem wall extends east four bricks from northwest corner.
- C2. Door handle assembly on front screen door is loose.
- D2. Bolts holding weight of dresser mirror have loosened permitting mirror to lean away from wall in bedroom No. 18.
- E2. Intermittent mortar crack along top of stem wall on west side of garage.
- F2. Shower curtain rod found in bath tub of bath No. 5.

- A3. Extension of horizontal grout crack on south wall of bath.
- .B3. Inspector unable to light pilot on furnace.
- C3. Inspector found toilet running. Could not correct, so turned off water to tank.
- D3. General expansion of cracks around border of tile wainscot on W wall of bath just N of door. Entire wainscot may fall off wall.
- E3. Inspector found electric clock stopped. Clock restarted okay.
- F3. Exterior A 7" vertical mortar separation at intersection of north side of chimney and west wall.
- G3. Exterior Horizontal E-W crack between 1st and 2nd brick from N end of S window on E wall has turned the corner and now extends vertically through the sill.

SUMMARY OF INSPECTION FINDINGS (A) - OCTOBER 1964 - PAGE 3 of 3

- A4. Vertical hold on TV set will not control picture flopover.
- B4. Exterior Vertical mortar separation east of the ninth brick east of the northwest corner in the soldier course at top of wall.
- C4. Exterior Vertical hairline crack in concrete stem wall approximately 18" west of window of bedroom No. 6.
- D4. Exterior Extension of diagonal masonry crack under east window of bedroom No. 4. Crack terminates at stem wall.
- E4. Exterior Two vertical mortar separations, one horizontal mortar separation, and one diagonal mortar separation noted.
- F4. A forced entry through the rear door of garage has occurred since last inspection.
- G4. Rear door to garage has not been repaired.
- H4. Exterior New mortar separation at upper left corner of rear garage door extends up through soldier course.
- 14. Exterior Vertical mortar separation four courses above stem wall at left edge of northwest corner brick on north wall.
- J4. Rear door to garage has been repaired.
- K4. Vertical mortar separation on west side of brick at upper right corner of kitchen window.
- L4. TV picture fades in and out.

SUMMARY OF	INSPECTION	FINDINGS	(B)		OCTOBER	1964		PAGE	1	of	3	
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			Test	Test	Test	Test	Test	Test	\Box
	Test Hous	se No. 5	House	House	House	House	House	House	
			No. 6	No7	No. 8	No. 9	No. 10	No. 11	
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a	Struct.	Furn.			Occupied R	esidences—		>	Α
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2				<u> </u>	†		†A10	†A11 0	2
3					†			35th	3
4								35	4
5	+A5,B5,D5				†A8	+	†B10	†B11	5
6			†C6	†		†			6
7	†A5,B5,E5		†	+	†		†C10	†B11 %	7
8			†	†	†B8,C8,D8	†c9			8
9	†A5,B5,F5						†D10	†B11 98	9
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11									11
12	A5,85, †E5,F5,G5								12
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14	†A5,B5		†D6	†A7,B7,C7	<u> </u>	†E9,F9,	†F10	†B11 8	14
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30							†	† 6	30
31					†				31
				END OF	PROGRAM				
	† Days whe	n house wa	inspected						

SUMMARY OF INSPECTION FINDINGS (B) - OCTOBER 1964 - PACE 2 of 3

Test House No. 5

- A5. New wall cracks have appeared.
- B5. Extension of existing wall cracks have appeared.
- C5. A 4" split in wallpaper on west wall of bedroom No. 14.
- D5. Intermittent paper split on north wall of bedroom No. 14.
- E5. General opening of previously patched cracks on ceiling of staircase.
- F5. General opening of previously patched cracks on ceiling and east wall of hall.
- G5. Additional plaster has fallen from cracked area behind heater of bath No. 5.
- H5. Wall is crazing on both sides of door on north wall of kitchen.
- 15. Horizontal crack in tile of bath No. 13.
- J5. Additional plaster has fallen from previously reported areas.
- K5. Refrigerator not working.

Test House No. 6

- A6. North and east wall crack noted in kitchen.
- B6. West wall crack noted in dining room.
- C6. North wall crack in dining room noted.
- D6. South, east, and west wall cracks noted in bedroom No. 7.
- E6. Ceiling crack extension in dining room.
- F6. North and west wall cracks in kitchen.
- G6. South wall crack in bedroom No. 7.
- H6. South wall crack in bedroom No. 8.
- I6. North wall crack in kitchen.
- J6. East wall crack in living room.
- K6. North and east wall cracks in living room.

Test House No. 7

- A7. Cracks noted on north wall of living room and on south wall of dining
- B7. South wall crack noted in bedroom No. 6.
- C7. Ceiling and west wall cracks noted in breakfast room.
- D7. South wall crack noted in dining room and ceiling crack in bath.
- E7. East wall and ceiling cracks noted in bedroom No. 3.
- F7. North and south wall cracks noted in bedroom No. 6.

- A8. West wall crack noted in bedroom No. 8.
- B8. South wall crack noted in living room.
- C8. South wall crack noted in bedroom No. 7.
- D8. East wall crack noted in bedroom No. 8.
- E8. Ceiling and west wall cracks noted in the hall.
- F8. Ceiling and north wall cracks noted in bedroom No. 8.
- G8. Two north wall cracks noted in living room.
- H8. Two south wall and one north wall crack noted in bedroom No. 7.
- 18. North wall crack noted in bedroom No. 8.
- J8. East wall crack noted in bedroom No. 7.
- K8. Cracks noted on east wall of living room and hall.
- L8. East wall crack noted in kitchen and west wall crack in hall.

SUMMARY OF INSPECTION FINDINGS (B) - OCTOBER 1964 - PAGE 3 of 3

Test House No. 9

- A9. East wall crack noted in dining room.
- B9. East and south wall cracks noted in bedroom No. 11.
- C9. West and north wall cracks noted in bedroom No. 11.
- D9. Crack noted in south wall of dining room.
- E9. East and west wall cracks noted in dining room.
- F9. East and south wall cracks noted in kitchen.
- G9. Ceiling crack noted in bath No. 14 and west wall crack in staircase.
- H9. East and south wall cracks in bedroom No. 11.
- 19. South and west wall cracks noted in bedroom No. 11.

Test House No. 10

- AlO. Thirteen wall cracks noted.
- B10. Eleven wall cracks noted.
- C10. Ten wall cracks and two ceiling cracks noted.
- D10. Seven wall cracks noted and three ceiling cracks.
- E10. Three wall and two ceiling cracks noted.
- F10. Four wall cracks noted and one ceiling crack.
- G10. Eight wall cracks noted and one ceiling crack.
- H10. Four wall cracks and five ceiling cracks noted.
- IlO. Five wall cracks noted.
- J10. One wall crack noted.
- K10. Four wall cracks noted.

- All. Five wall cracks noted.
- Bll. Four wall cracks noted.
- Cll. Two wall cracks noted.
- Dll. One wall crack noted.
- Ell. Three wall cracks noted.

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7.	TRANSDUCER 7 &	0,17	6.30	0.37 0.24 0.24 0.54 0.57	0,26 0,21 0,20 0,19	9.37	0.24
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PAGE 4 of 9	KEMAKKS	"NO KECAKD "NO KECAKD "IN KEOK O "NO KELOKO "NO KELOKO	* NO KECKO ** RECOLD SMEARED	* No KECKP TRAIN PASSING DURING FUGHT ** NO KECKP	"No RECORD "NO RECORD "NO RECORD	
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STRI (SEI	FLYO	92.86.84 92.86.84 92.86.84 92.86.84 92.86.84 92.86.84 92.86.84 92.86.84 92.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.84 93.86.	125

STRUCT	'UK	AL	RESE	ON	SE	T	os	ONI	C B	300.	MS								 				AP	PEI	IDL	K B
PACE 9 of 9	REMARKS		TUNREAGALLE									i an														
		۲۶/	adz	0,25	8:10	\$20	0,3/		620	0.26	0,20	0,20	975		454				 							
(s)		4	*	0.30	0.30	0.21					0.92				2,67					-						
ACCELERATIONS (g's)		3/													0,38						·					
TION		/3													6,23											
ELERA		=													0,39											
ACC		0/	1	90.0	2.04	2.06	0.03		0.07	40.0	5/10	0.0/	0.0		0.21				 				••••			
	10/11)														0,47											
0.1	TRANS DUCER	1/2		0.63	25.0	0,35	0.38		6,53	0,27	0.41	0,20	82'0	_	\$60		,***									
TEST HOUSE NO.	TRAN	7	8/13	2116	0.10	80.0	1.00				573				p6'0 pp'0	·										
r hou	2	9	0.10	31/3	01.0	11'0	0.08		0.14	0.14	900	9,0%	4/'0		0.89											
	ACCEC.	\$													p.0											
NSE -		4	0.04	0.07	0.05	0.02	20.0		0.03	0.02	0,04	9.00	0.03		4.07					•		v-				
respoi		ω												.	8/10		_,		 						·	
_		7													2.77		··········		 			-				
STRUCTURAL ACCELERATION (SELECTED DAILY FLIGHTS)			0.03		0.04				0.02				0,03		70.0				 				·			
ACCEL AILY	0.0	(pst)	2 /5			*********			141				1.62		<u> </u>				 							
IRAL , 'ED D,	TA/12.	ACFT.	3 7.6				<u> </u>		101-2	101-10	101-13	3 1-10/	10/-4		BLUE			· · · · · ·	 							
RUCTU	FUT. 111	1 de 1	2/11/83						617/	1230			1221		Maximum I				 -							
STI) (SI	DATE	2	7/19/17	7/2//4	7/22/1	7/23/64	7/24/44		7/26/6	1/22/64	1/80/1	7/29/4	1/30/64		MAKI				 							

35.

-4	KEMARKS			NO BOOM								O K Swanishi	" CLESINGSLE	* OUSTIONABLE.				* QUESTIONABLE			Ala Are/connerter	NO ACCIONARTED	Va / 21											-	
PAGE	DIFF. TRANSFIRMER (II)	2						-								0.000	0.001	00000	0,000	200	3		0,000	2,000	0.000	2.000	2.60	3,000	0,000	0,000	0,000	0,000	0.000	9,000	
	DIFF. TRA	-											-		0,0/0	0.011	810.0	0.006	1 400	0.00			0/0/0	0.009	0.0/2	0.00	0.024	0.026	0,0/0	900'0	0.035	0,027	0.016	0.017	
	_	4		1		1	-						1	-			0.0/22	51100	0.0072	0.0094	17		0.0101	0.0266	0.009	0.0086	51100	85000	0.0/22	050000	0.0079	0,007	0.0137	6,0000	`
	ACCEL EROMETERS (in	33	0.0197		0,0251	0.0627	0.0/25	0,0197	0.0179	0.0072	70100				0.0/6/	0.0161	0.0143	0,0036	0.0161					İ	0.0143	0.0143	0,0269	0.0143	0.0269	0.0/43	0.0269	0.0/6/	6400	0.0143	
	ACCEL ERON	7	0.0204	-	0,1372		0.0248	0,0321	0.0307	0.0015	0.0409	0,0599*	0,0788	0,1022	0.0292		0.0365	0.0350	0,0204	0,0277			0.0365	0.0292	0.0292	0,0204	0.0453	0.0350	5610.0	0.0/3/	61000	0.0350	0.0277	19100	
		-		1				-	1			1					51800	0,1029					0.0282	0.0083	0.0066	0.0083	91100	00/00	0,0033	0,0033	0.0216	00/00	0,0116	0.0064	
		7									İ				1			-		1	-	1	-						-		1				
		9	4.2		2/.10	28.08	74.70	37.30	76.90	20:0	193	28.18	2/,2	20.93	26.78	23,2	22.88	15.6	18.4	18.08	8161	15,34	19.45	10,96	27.13	27.7	24.33	20,20	80.61	8.19	3/./5	19:17	18.24	00'91	
5		S	5.85		3.30	4.90	5.00	4.85	5,85	2.80	3.95	6,25	4.25	3.95	3,40	2,85	2.60	3,70	3,33	3.09	3,26	3.87	1.9%	4.12	5:39	3,43	3.19	4.08	2.93	1.34	6.42	5.43	3,78	3,14	
ISE NO.	(m/m)	4	3,81		1.87	1.84	1.94	1.94	2,28	92.0	1.58	2,74	1,5%	2,06	151	1.03	2,68	1.92	1.88	88'	1.47	/9./	1.54	1.27	1.68	1.27	2,37	215%	2,23	1.32	2,7/	2,5/	94,	0,40	378WNC
EST HOU	GA GES	8	8.05		3.41	5.25	4.71	6.27	2/5	2,66	%	52.52	10.2	8,44	11.39	10.02	13.98	9.82	12.16	11.82	14,03	8,95	13,03	4.68	5,95	5,48	8,94	10.02	5.28	3.54	8,26	6,23	%'5		<u> </u>
1	51K4 IN	2	5.80		3.68	5:06	4.51	5:70	4.11	3,59	6:39	9.40	6.12	7.03	6.30	6:39	7.21	6.2/	3,27	3,11	3,38	2,84	3.81	2.89	3,48	2,30	3,95*	3.78	2512	1.37	121	3,62	4.0	- '.s' '.s'	-
L RESPO			95')		1,23	1.39	1.23	1.23	1.72	1.06	2,95	4,34	2.87	3.11	3.44	2,38	33.7	3.03	2,90	2,74	2,58	2,90	2.42	1.37	2,02	1.2/	1.6.1	16:1	9)'/	0.58	8.6	1.41	1.25	80:/	
STRUCTURAL RESPONSE	NO. OVECTOS SILE	(454)	1.40		0.89	1,30	1.16	1.28	1.89	0.74	11.1	1.28	7.54	1.16	1.37	0.87	1.49	7.37							1,26		1.07	0.88	0.98	0.39	1.63	(.47	0.77	/910	
ALL	7	4		_					1077	1078							590/	1088							(0,03	(074	5601	9601	160)	8601	660)	001/	/0//	107	9
]	16			<i>p</i> 9	, 8	<i>h</i>	7/1	_				9,	61	17	25	•				9.	.01	1	201	^				7	9,	11	1	101	7		

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2 of 6	REMARKS											Kripulpier off															ţ	CAKE VO OUT				FSWLE	f SCALE	F SCALE		F SCALE	
PAGE	NEMER (W)	2										0.000 KK	0.00	0.000	0,100	0.000	0.000	0.03	C. 670		0.00	0.030	0,000	0,000	33	g. 53	, e	(T)	2,030	0000	0,30		0,000		a,ma toff		
	DIFF. TRANSFORMER (W.)	,										6.000	250.0	0.039	0.055	0.044	2,044	0,092	0,078	•	0.040	0.032	0.049	2,00	0,040	0,032	0,034				0,630	Ψ.		-			
		4	66000	5,000.0	0.0086	0,0/0	0.0079	0.0	0.0094	10/00		0.0079	0.0079	0.0058	51/0.0	0,0058	0.0026	0,200,0	80/00	A-A-411.22	0.0157	0,0065	0.009£	2,000	\$600.0	0.0079	0.0079	İ	0,0/37	0.0/22	0.0/22	0.0115	0.0101	0.0094	51100	0.0137	
	ACCELEROMETERS (W)	8	1910'0	0.0143	0.0143	15200	5/2010	0,0	0,0215	0.0286		0.0333	0,0215	0.0215	20179	0.0251	15000	0.0197	0.0179		15000	0.0215	0,0304	0.0215	5,0143	0,0233	26100		0.0286	0.0304	62130	0.0143	1520.0	0,0286	0.0215	0.0197	
	ACCELERON	61	0.0409	0.0394	0.0324	0.0 \$23	0,0409	0,0146	0.0423	0.0438		0.0 \$23	2,0423	2,0409	0,04%	D'68010	0.0350	0.0357	9250,0	,	0,0394	0.0292	0.0423	0.0438	0.0394	0.0336	0.0292		2.0584	0.0413	0.0467	0.0394	0.0321	0,0292	59800	0.0453	
		,	0.0/33	0.0149	0.0083	5.0083	0.0199	0,0	0.0166	0.0/00		9910.0	0.0/33	0.0149	0.0266	0,0166	0.0249	0,0166	0,0282	,	6516.0	99100	0,0199	0.0183	0.0232	0.0199	0.0149		0,6/33	93100	0.0249	0.0/00	0.0166	0.0/33	0.0149	0.0216	
		7								1		12.95	14.46	81.01	13.58	10.94	10.70	16,91	18.16		10.36	7.67	12.01	12,52	7.50	7.47	6:30	1	8.34	7.46	6.45	2.08	7.33	7,20	وه چې	07.77	
		9	26.4	24.3	19.3	22.6	22.1	7.51	3.5.6	23,4		27.80	76,16	26.16	3/197	1/192	27.25	26.43	33,25	,	29.70	22.19	26.63	27.46	23,58	18.36	19.70		27.19	30.79	19.42	18.86	19.70	78.8/	23.58	4	
5	(iii)	(y	6.10	5.5	3.68	4.87	8,2'5	991/	9/'5	4.72		82.5	6,22	ь. З	6,37	4.70	4.56	5,50	6.17		2.2/	2:06	5019	5.95	2//5	4.17	2.83		5:77	2119	3,89	3.45	3.89	4.24	4.73	25.52	
OUSE NO.	646ES (mm/in)	*	2,6	2.73	2,46	204	ů K	519.0	3,38	3,38		21/2	2187	ž.	2,60	1.57	(,43	1.61	2,30	,	3.85	3,44	2,40	3,23	1.99	1.72	۲۵,		2,87	, ;	1.02	1.30	9/'/	1.84	5'16	16.1	
TEST HOU	STRAIN GA	m	6.9	35	2,94	8	8.3	2/12	8.7	9.56	,	8,33	8,06	8119	89.6	7.04	6,23	2.45	10.90		2.98	7.88	7.53	7,35	7,28	54%	4.41		8	000	6.55	4.81	82'9	10.9	6,21	SE'Z	
j	57	7	2:0	6,44	4.7	4,96	7.18	1.93	 	6.44		5.52	6,53	3,96	7.82	4,42	9/19	4,60	7.73		24.49	5,23	5.05	4,96	5,33	4,02	4.49		9,27	6,12	5,84	4.82	5:10	4.26	6.30	6.67	
L RESPO	322		2.26	1.53	0.97	1911	241	0.645	3,06	2,82	•	3.76	3,76	2,/3	4,25	76'/	79.	2,29	3,27		2.93	6,72	4. 0.	2,57	2,24	05./	3,24		2,47	2.64	3.63	3,63	3,96	3.63	4.20	5:03	
ALL STRUCTURAL RESPONSE	FLT NO. OVERPRESSUR	cysah	1.57	1.25	0.61	0,98	1.27	0.36	1.45	0.89	`		7.50	1,20	1,52	1,22	1.24	0.85	1,29		1.07	1.35	1.26	421	1.05	4111	0,63		77'/	1,33	0,95	0.8	0,99	1.02	1.21	4.	
ALL ST	<u> </u>		1103	4011			102			(110				1113				(111)	8111	; ===				1120			1125	1/26	1127						1133	1134	
	1/2	W							_			<i></i>		<i>41</i>		~1					,	//		-1	"'[29		1 A	10	<u>. </u>			

PAGE 3 of 6	REMARKS					-				* No RECORD									NO RECORD	-										-								
,	DIFF. TRANSFORMER ()	7	0.00	0,670	0,000	0,00	0,000	0,00	0.030	0,600		33	0,000	9 0	0'G	0,00	0,93	0,030			8	9:C3	0,030	0,000	0,3 B	6,9	o'ce	0,000		3 5	0,940	0000	0,000	0,040	0,000	0,000	0,000	
	DIFF. TRANS	\	0.014	0,022	0,026	0,023	0,048	4027	0.02%	0.022	7	0.0.0	0.0/8	0,023	0,012	0.023	0.011	0,009			0,02/	5100	2,025	0,023	0.023	6,0/3	0,0,0	5000	7	5,0,7	0,920	0,014	0,020	0.032	2048	0,0/1	6,0/3	
		Ą	0.0050	0.0/0/	2,0/08	0.00/2	9,8000	2,0065	0,0058	*		2/00/0	0.0072	0.0072	0.014	0.0065	0,0058	0.0094		,	0,0043	25000	0,0072	0,0058	5,0065	0.0072	5,00,0	0,0086		0,000,0	0,00/2	2/00.0	0.0043	0.0079	2.00 gg	0.0101	0.0072	
	ACCELEROMETERS (W)	8	57/00	19100	15000	0.0179	0.0197	0.0197	0.0179	* 1		0,0273	0.0179	0,0179	0,0233	0,016/	19100	50,00		,	0.0143	0,0/43	0.0/97	6210:0	0.016/	0.0179	6.0107	0.0179	10,0	1100	0,025/	52/00	0,00,0	0.0197	0,0107	6,0179	0.0179	
	ACCELERON	2	0.0272	0,0453	0.0496	0.0438	0,0292	0,0336	0.0307	*	700	0.0344	0,0423	0.0365	0.0394	0.0394	0.0234	40000	-	,	0,0292	0,0336	0,0438	0.0584	9:6336	0,0324	0.0324	0.0496	2	0,0350	0,0438	0,0272	0,0350	0,0526	56100	0.0204	De234	
		,	0,0066	0.0/00	0.0/49	0,0083	0.0/33	0.0/00	0.0116	1		0.0066	0.0/12	0.0/00	0.0/33	0,0083	0.0033	0,0433			00/00	0,0/33	0.0083	0,0083	99/0.0	9110'0	0,0083	0.0/00	77,00	0.0100	0.0/33	0,0146	0.0083	91100	0,0066	00/00	0,0083	
		7	3.54	5,81	6.95	6.32	12.77	6.83	6.32	5.56	,	6.19	5,56	56.9	25,5	3,29	3.03	51.15			3,13	4,00	6,00	6.00	52.5	3,38	2,38	5,63	• ,	0.0	5,23	5,25	ૅંડ	- -	1.74	2.87	3,2,5	
		7	16.97	23.02	27.41	24.12	35.91	32.34	24.12	7:7	,	28:29	なな	27.74	33,85	56,35	ध्य	17.48	-		18'90	70.05	27.96	27.96	25.49	23.02	17,82	30,15	/00	45.6	200	20:0	77.4	26.75	24,0	27.0	5,95	
5	47	1	2,42	3.16	4.39	3.75	7.20	4.04	3.89	4.44		9915	5:0/	2,26	4.07	4,4,	25.4	2,68			3,63	3,43	4.38	3,98	3,40	1.8	1,92	2,37	, ,	714	23	2,2	95'/	6,83	1,36	248	2,3	
OUSE NO.	16ES (12-4-1/42)	*	1.15	1.47	2,70	2.49	2,36	1.89	2,22	781		50.5	597	1,92	661)	ري د د	5.7	0.00	.		1.94	1.07	181	1.07	1.68	/0'/	(107	1.47	,	7/1/	0,40	1.08	0,99	2,38	526'0	1.72	1.72	
TEST HOU	STRAIN GA	m	90'9	76.2	2.67	800	15.11	10.10	7.47	75.		10.57	11.46	(0,23	2,25	6,07	7.57	9.9			9.62	5,27	676	7.0%	8,35	5.74	6,48	8.42	,	5,9	5,3	4,2	4.825	70%	3.45	6,2	4.76	
ı	Š		3,34	5.19	6.67	6,/2	55.	2.3%	6,49	5.84	,	6.49	6.40	29'9	7.79	7.99	3.00	4.82			5:26	2.10	7,42	5:38	6.77	45,4	4.45	797		4914	77	4,36	525	200	3,09	4.35	5,2	
ALL STRUCTURAL RESPONSE		_								1,24		1,72	1.47	\ '\ '	84.7	1,72	0.08	5/'/			/3/	181	20	1.72		5/:/	5/'/	1.64	,	1240	1,2/	225'0	0,89	1.13	0,484	0.97	0,645	
RUCTURA	CURP FPE (SUR	chsts	0.77	760	9)'/	0,97	1,70	1.30	707	127		1,27	1.36	671	1.05	7.70	0,83	20.00										1.37									0.70	
ALL ST	-	1	1_							1142								1149	-8								1157	*8511	,	151						5911	9911	* F-108
	3	140		19	', '! 	11	10	וחו				<i>*</i>	·9 ,	Zi		"]	! `					79	, S,	_	7/	<u>T</u>					<i>#</i> 9	, 6		7/	T.			

E 4 of 6	REMARKS												,	OFF SCALE	* off scale	* OFF SCALE	* OFF SALVE															No Boort	•	No BOOM		
PAGE	COLLER (M)	2	0,000	E 0	0,000	0,000	0,00	0,636	0,00	0,000		0,03				0.00			0.00	25	E	0,00	C, 83	0,040	0,00,0	0,00	0,000	0,000	0,000	0,000	0.000		0.000		0.000	
	DIFF. TRUNSFORMER (M)	/	0.016	0.024	0.00	0.0/4	9.0.0	0.022	0.015	0,021	1	0.027	0.0/80				-	0,628	0.026	0.030	0.026	6,430	0,027	0,034	0,021	0,03/	0,027	6,021	0,023	0,021	0.019	-	0.064		9/0.0	
		4	2/00.0	0.00 86	3,0072	2.0/30	0.00/6	59000	0.0072	3.00%		2,0072	25000	0.0065	0.0058	0.0/0/	2500.0	05000	0.0065	0,0058	0.0079	0.0072	0.005	6200.0	0.0073	0.0/0/	\$600.0	0.0000	0,0072	0,0/08	0.0072	-	0.0072		0.0072	
	ETERS (in)	3	19,00	0.0143	0.0179	5/200	0.0143	3,0215	0.0179	0.0197		0.0197	0.0161	0,0197	0.0233	0.0069	5/200	66100	19100	 0,0133	0.0179	0.0197	62150	0.0179	0.0/6/	0.045	0.0197	19100	0,0/43	0.0233	6400	1	6/100		0.0107	
	ACCELEROMETERS (in.)	2	12800	2.0413	0,0380	0.0394	0,0192	0,0409	0.0307	0.0409		20423	0,0272	0.0321	0.0467	60000	0.0234	0.0324	0,0204	0.0394	0.0423	0,0336	0.0350	0.0234	60000	0.0248	0,0248	0,032	0,0292	0,0 423	0.0350		6,0569		0.0117	
		/	25/6.6	0.0199	6,0000	0.0/0.0	3.0/33	0,0/00	6610.0	0.0/33		0.0/33	0.0066	91100	66100	0.0199	0,0/0	0.0066	0.0083	0.0/33	0,0/33	0.0 (33	0,0/33	0.0/33	91100	00/00	0.0/33	6.0083	0.0/6/	91100	0,0066		0.0/33	;	9900'0	
		7	4.27	6.29	8,2,8	4.40	4.27	5:41	3,90	22.5		7.54	5,03	9,30	10.56	90:11	2,29	2,66	5,28	5,03	7.29	9/1/	2:61	16.9	9/19	6,29	6,03	5,41	82.5	5,53	4.78	-	7.67		3,52	
		9	50.5€	33.62	52.60	30.71	19.94	26.94	17.24	22,63		521/2	22,35	B T	77,75	23.98	14.93	14.72	13,08	22,89	24.53	24.53	72,07	22,89	80%	22,89	17.44	7.	15,02	18:31	त् ते		73.84		28. 28.	
2	13		3,90	9/19	4.82	3,33	3,13	2915	3.69	\$,23		5:23	3.60	5.03	7,44	5,32	3,45	1.97	1.58	3,52	3.66	4.39	3.71	2,22	275	236	1.98	3,33	n & 6	3,13	2.51		5,24		1.54	
OUSE NO.	ES (Auth		1.27	2,81	<i>\$6'1</i>	1.47	1.68	414	½5./	825		243	69.1	1.89	2,70	270	691	7910	0.67	1,40	1:40	£/3	1.73	1,40	3.00	1.53	1.27	101	59"	501	86'/	-	2.04		0.54	
TEST HOUS	STRAIN GAGES		7,35	11,22	7.41	20%	5,28	80%	2,48	80.6		10.57	7.13	8.14	8918	10.90	5,38	3,63	3,23	5,47	865	6.05	2,47	5,47	4.69	6:30	2,68	234	5.34	2/0	5,8,5		8:01		2.60	
ŧ	LS	77	96'7	6.44	5,52	6,26	5.52	7.08	19:5	7.18		7.03	4,93	5.02	Sign	5,39	3,54	3,29	3.0/	4.42	5,34	5:34	4.42	3.3/	4.14	414	3,50	7	200	4,20	4,29	-	6./2	ļ	2.10	
, RESPON		_	0,92	1.47	/0/	99'/	0,63	101	2.7	1,29		90',	0,74	3.44	3.76	3,52	5/3	å.	1.47	90:/	0.73	7,44	1.62	2,03	2,1/	2,60	7.62	2	27.0	20	9,64	-	3.52		7/1	
ALL STRUCTURAL RESPONSE	OVERYCESSURE	S.S.	9.94	1.27	1,34	0.85	1.34	0.92	0.65	1.08		1.27	0.75	94.1	1,30	1,32	1,22	2.75	0,5%	/./7	0.845	141	1.87	0,7,0	0,54	30	0,66	27.78	74	000	32.0		0.93		\$5'0	
ALL STR	FLT 110	<u> </u>	6911	8911	6911	1170	1711	1172	1173	1174		1175	9/11	1771	8011	2011	2	181	1182	1.83	181	2811	11.56	187	1.831	1139	1190	1011							8611	
4	7.	LHO	1	19,	02	? /	イフノ	Ľ					69	12	: 1	717	<u></u>			19	, (28	X	ומיד	<u></u>				Þ	9,	'£0	h	nn[•		1

		T							_								\neg												3			
PAGE 5 of 6		*OFF SCUE	-	MISSED BOOM				*OFF SCALE									100 1 10.	STRAW GAGAS OUT		* AMPLIFIER OFF	BALANCE				* MISSED	* MISSED	4 MISSED	MISSED BASH	"NO HEASULABLE PEFT.	-		
P	2 Z	0,000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0,000	0.00/	0,000	001.0	0.500	0.000	0.23	0.000	0.000	0,000	0,000	0.000	9 5	0,600	0.900	0,000	0.000			0.000	0000	
Ore Tota	7	1	0.038	.	0.033	0.00	0.023		0.014	0,021	0.01	0,010	2.0.0	0.017	0,010			0.019	5100	0.016	6,0,0	0.029	0.0/4	0,00	0,020	9,016	0,0/2	-	9	0.0/4	0,022	
	P	00072	0.0079	-	0.0058	38000	0.0050	0,0144	6.00.0	0.0108	0.0072	0.0101	0,000	0.0072	0,0058	26/0.0	0,0072	6.00.0	0.03 84	0,0072	5900.0	0.0094	0.0086	0,0079	59000	0,0079	05000			29000	2,000	2
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Acres	ארוטרפערט	4.60,0	2.0526		0.057/	60000	0.0219	0.0394	0.0234	0.0307	0.0356	0,0380	05800	0,0336	0.0277	0.0324	0,0263	9:60'9	0.031	0,0292	7560.0	0,0380	59500	0.0263	0,0248	0.0324	0.0263			10500	0.0277	
		0.0183	0.0149		0.0/33	0,0/49	91100	66100	9900'0	0.0/00	0.0/49	0.0169	0,0/00	90.00	0,0083	0.0/33	0.0(00	0,0083	0,6083	00/00	0,0083	0.0/66	20,010	0.0/00	0.0/00	0.0/00	0.0050		-	0,0/00	0.0/6	
	7	8.95	9,33	.	7.41	10.99	4.35	15.72	37,78	5,31	4,30	4.68	404	400	2,40	3.65	3,24		4.47	4.73	25.5	8.95	4.86	3,83			•			400	3,68	
	7	21.19	20,93	-	17.48	26.23	13.77	34,44	87.8	24.11	19.02	26,36	19.82	36.36	17.95	34.95	17.82		24.38	21.97	74.11	27.86	19.70	20.63						21.47	2/3	
10.5	5	3.88	4,12		3,70	3,63	3.0/	4.95	9/1/	3,6/	3.03	3,57	2/3	273	99'/	2,00	2,69]	3.24	3119	3,78	6.42	4,4	3,34	اً				;	40,0	2 %	
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TEST HOU	7	88.9	10'5		80.5	8,28	3.64	11.09	1.94	6.04	4.45	5:44	2,44	27.5	45,50	55.	3,48		2,0/2	6.26	6.65	8,70	6.72	4.94				*	į ;	6.8	5,46	
		4.73	2,10		4.45	8,28	4.76	2.97	2124	5175	2,0,5	4.64	4,64	4.45	386	6,30	3,17		5.47	3,85	58.5	15.9	000	2619					1;	7.0	38.5	
L RESPO	,	2,26	2,82	•	2,34	7,66	ĝ	3,06	2,64	1.29	0.97	١٠٥٪	6,9	0.8,	0,48	1.45	0,8		9.8	0,97	4.14	1.87	4.7	1,22					:	50%	1.05	
1 24 5	OVERTA ESSURE	1,27	/23		/0/	1,32	1,23	2.72	0,48	LIII	104	1,28	0.95	1,13	0.68	1.92	1,72	1,29	86.0	1,20	1,26	1.74	3 %	9):/	0.97	1,30	90'/	;	0,17	%; ;	560	-
ALL	7-1	_					1204		1206	1207						733	1214							1222							1230	
	<i>3100</i>	1	79		. 2	イ フ	שיני				19	څ ر	z ,	471	Ľ				p9,	.92	ム	711			,	69.	'/.z	X	7/1	5		

STRUC	TU.	пні	אנ	LO.	POI	VOL	1 1	0 1	501	NTC	ВС	OI!	15 —																	AF E	DIV	
E 6 of 6	REMARKS						THO DEFLECTION	'off sour		* POWER OFF	POWER OFF	POWER OFF															É	" Very Smill.				
PAGE	CALMER (in)	2	0.000	8 6	0.00	0,000			0.000			•	0,000	0.000	0,000	0.000		0.900	0.000	2000	0000	0.00	0,80	0,000	0.000		100.0	•				
	DIFF TRANSPORMER	/	9.0.0	0.978	2000	2,054	0.047	-	0.036	1			0.017	0,022	5/0.0	0.0/4		0.011	0.015	0.015	110.0	9.0/4	0.0/8	0.07	0.0/7		8100	·			 	
		4	0.0086	7/200	2,000	0.0058	0.0072	10.0/37	0.0/0/	2,0065	0.0065	0,60 86	80/00	59000	0.0/0/	0.0065	į,	0.00/2	6.85% 11.5%	0,000	70/0/0	2/00/0	0.00/2	29000	0,033/		166-					
	ACCELER OMETERS (AL)	3	0.0179	15700	0.0/43	0.0/79	5.700	98000	0.016/	0.016/	2,0197	0.0197	0.0143	6/100	0.0233	6.0197	. !	0,0174	0.0/6/	2400	0.07	0,0/0	0.174	0.0197	0,0965		0.2757*					
	ACCELERON	2	0.0263	0.0380	0.032	0.0380	3.0324	0.0219	0.0/89	0.0204	0.0263	0.0324	0.0350	0.0336	0.00 92	0.0336	•	0.02/2	0,0324	0,0365	0,0336	0,0263	0,6386	0.0263	0.0438		11/1.0				 .,	
		,	0.0/33	0.0666	0.0/15	0.0/49	0,0/33	0.0/33	0.0/00	0.0050	00/00	0.0/00	91/00	0.0066	0.0/0.0	0.000	,	0.0/00	0,0/16	2000	0.0/00	0,0/33	0.0066	91100	0,0/6/		* 6201.00					
		7	4.3/	4.67	ò	12.05	6.84	1230	6.73	4.08	58,0	3.59	5,44	6.3	4.4	90'9	,	3,15	47.	\$ 6	7	6.50	13:5	4.84	695		18.86					
	i	9	23.04	23.56	20.5	36/2	8.9	27.59	18:51	16.95	68:51	47.72	23/28	28.87	52126	37/72		7.72	7.75	78'6/	56,56	23.05	26,23	22.78	26,23		16.56				 	
۷	(14 my (12)	ک	65'5	3.17	. e	4.73	7,00	2,20	293	2,62	3,15	743	4.70	3,49	4.37	3.8.8	,	3,27	3,42	4.24	3,57	2,83	400	3,72	4,92	,	7.4				 	
USE NO.	35		50%		000	7 7	2,03	501/	1991	761	1,62	891	7.00	3,23	200	233	,	, 58,	हुत् त	9 /./	7	7.5%	5110	69.1	2,4/	.,	6.4				_	
тезт нои	STRAIN G		75.7	2,5	6.46	5.53	200	6.46	4.01	523	4.54	4.61	6.55	496	7.31			5,39	00 C	7,03	, ot	5.14	8.66	59:5	7,06		15.77	·			 	
t			5.02	5/5	75.0	787		4.38	507	4.57	5,30	6,/2	7.49	7,67	8.76	7/2		5:39	5,03	6.48	7/1/2	6.30	7./2	7:/5	9,40		7.55				 	
STRUCTURAL RESPONSE	<u>.</u>		•	0.42	200	100	4 4	1.11	2/8	0.64	0.79	0.87	1.0	0.87	1.35	77.		3.	1.28	0.6	1,2%	/,20	1.28	7.50	1.68		5.03	•••••				
TRUCTUR		13803	ļ					1.09							5/:/									0.60			MAX. VALUE				 	
ALL S		1	L				1236	1237	1238		727				1244	1245		1246				<u>.</u>	na	7252	[52]		MAX.					
	34	VO		rt	• •	,		•	1	, <i>'</i>	/,	00	Λ,	1			i		<i>19,</i>	n	, ,	".	L		ĺ							

Excerpts From

REPORT ON SPECIAL STUDY

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FIRST NATIONAL BUILDING

August 31, 1964

INDEX

	rage No
Introduction	2
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Examples of Overpressure Recordings	10-12
Deflection Measurements of Windows	13-17
Examples of Window Deflection Recordings	18-20
Examples of Wave Form Recordings	21 & 22

INTRODUCTION

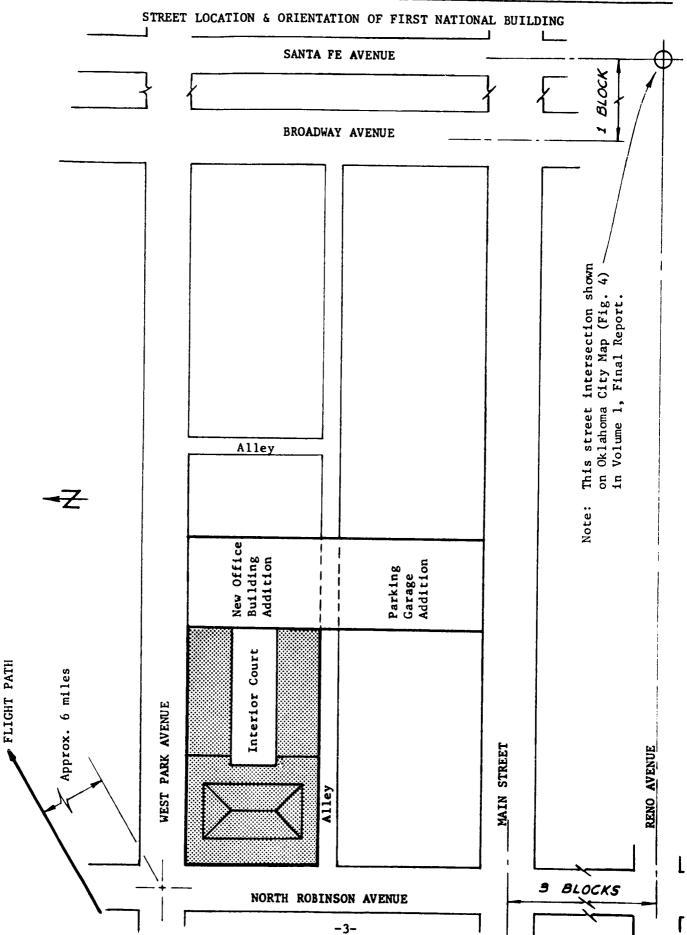
The original First National Building was constructed in 1931-32 consisting of a 32-story tower fronting west on Robinson Avenue, plus two 13-story wings. Total height of the tower is about 407 feet excluding beacon tower. At the rear (east) of the tower are the two 13-story wings joined by a 4-story section. Most of the original 31st floor of the tower has been considerably altered (including windows) and is operated by a separate corporation known as the Beacon Club.

In 1957-58, a 14-story office building fronting north on Park Avenue was constructed across the east ends of the two wings, and connects to a 13-story parking garage built in 1956 which extends south from the office building to Main Street. Due in part to the fact that no window glass damage was claimed for either of these newer structures, the office building addition and the parking garage have been omitted in this investigation. It may be significant that no window glass damage has been claimed for the office building addition, but the study and analysis involved were considered to be beyond the scope of this investigation.

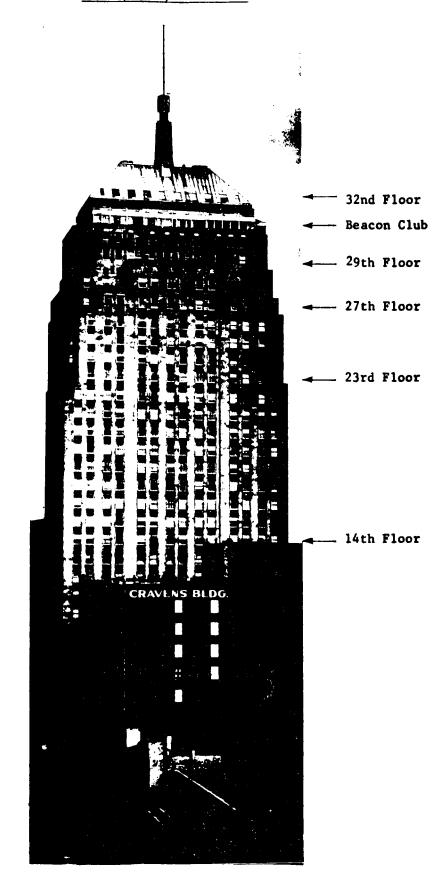
A map showing the street location and orientation of the First National Building (FNB), plus a photograph of the west elevation, are included on pages 3 and 4.

General directions and areas for this investigation, as defined in engineers' directive, were as follows:

- 1) Make an inventory and detailed inspection of all windows in First National Building to determine location, condition, and construction details, particularly with respect to glass manufacturer's recommendations and published data.
- *2) Measure overpressures produced from sonic booms at various levels and sides of the building.
- *3) In addition, it was subsequently considered necessary to develop and furnish a portable instrument system to precisely measure and record selected window glass deflections and frequencies.
- *(Note: Excerpts included herein relate only to the latter two areas of investigation.)



FIRST NATIONAL BUILDING - OKLAHOMA CITY
West (Front) Elevation



OVERPRESSURE MEASUREMENTS

Prior to starting this investigation, and in connection with the general studies of overpressure distribution within the program test area, overpressure measurements had been taken on Sunday, May 31, at street level on all four sides of the block of which the First National Building occupies the northwest quarter. The location of the building with respect to the streets bounding this block is shown on preceding page 3.

In the effort to determine, if possible, the general level and nature of overpressures which had occurred, and were occurring, at various levels and sides of
the building, a series of overpressure measurements were made each day during the
period of June 13-19, 1964 and on July 11, 1964. Accessibility to some desired
locations was limited due, in some cases, to building configuration, and in others
to tenant occupancy of office space adjoining. However, overpressure readings at
four sides or corners of the building were obtained at the 32nd*, 29th, and 27th
floor levels. Since it was considered desirable to be able to estimate maximum
overpressures which may have occurred at any time, at any point, at the building,
microphone locations were selected when feasible at points where "focusing" should
occur, such as the extreme corner of building insets. *(South side not accessible)

Also, overpressure readings were obtained at the 14th floor (west wall) and at the four corners of the 13th floor roof and at the bottom (5th floor level) of the interior court. On June 14, in an effort to obtain an indication of the overpressure relation between top and bottom of the building, simultaneous readings were obtained at street level and at the 32nd floor level.

All overpressure measurements obtained at various locations on and around the building have been tabulated by date and flight number (pages 6, 7 & 8) and are correlated to comparable overpressure measurements (and the average) recorded at Test Houses No. 1, 3 and 4 to determine what relationship, if any, existed between overpressures produced in the FNB area and overpressures produced at the test houses.

	OVERPRES COM				FIRST NA			G		1 01	
Date 1964		Test House	Test House	Test House	AVG.						3
0 -	Flight No.	#1	#3	#4	1,3,&4	FNB		c. Loca			
6/13	1	1.57	1.39	1.10	1.35		Bottom	of inte	rior co		8
<u> </u>	2 (F-106)	x	1.71	2.36	-	.19	"	11	l		Mobile Unit
	3	1.87	1.23	1.19	1.43	.28	,, ,,	11 11			D.
├	4	1.84	1.65	1.52	1.67	.31		11 11			릨
 	5	1.45	1.69	1.15	1.43	.28	" "	11	l	L	- 8
	6	1.82	1.34	1.17	1.44	.31					Σ
			•								
6/14	1	1.24	1.76	1.14	1.38		1	oor - W	ļ	+	
	2	1.31	1.50	.90	1.24	1.46	"	")1 11	1	B
	3	1.22	1.63	2.67	1.84	x	F1		orth si		Mobile Unit
 	4	1.51	2.16	2.02	1.90	1.44	"	11		L	'n
├ ─- !	5	1.16	1.76	1.14	1.35	.42	"		ast sid		9
	6	1.92	1.13	3.05	2.03	.45	11	" -	, ,,	ļ	<u>8</u>
	7	.92	2.16	1.60	1.56	.50	Ħ	" - N	orth si	đe	ž
	8	1.22	2.24	2.15	1.87	.55	11	11	** **	 	
6/14	1	Same			1.38		Street	level -	West s	1de	
\vdash	3	above		/_	1.24	1.12	11	- -	111	-	⋖.
-	4	,	/	ſ	1.84	1.00	11			 	퓔
	5				1.90		Charach	1 1	F	30	-5-
			/		1.35		Street	ievel -	East s	i de	-9
╟─╢	<u>6</u> 7			 	2.03	.47	71	1,,	11	-	Mobile Unit
	8				1.56	.55	"	"		-	Σ.
6/14	1	Same			1.38	1		level -	North	side	0
\vdash	2	above		/	1.24	.83				"	
	3		/	<u> </u>	1.84	.98			"	.	Unit
┠——╂				 	1.90	.91	"	"	11	11	
} }	5		/		1.35		Street "	level -	South	side	Mobile
 	6			ļ	2.03	1.40		11	11	" "	N X
	7 8				1.56	2.51	'	"	- ''	"	
	x = Equipment malfun	tion									
	Copy of O.P.	ape inc	luded b	erein.				<u></u>			

	OVERPRES COM	SSURE ME						G		
		1	1	T	T				Υ	2 of 3
9 7		Test	Test	Test	AVG.	,		_		
)at	Flight No.	House #1	House #3	House	of	EVD		c. Loca		
		i — — —	1	#4	1,3,&4	FNB		(Mobile	1	
6/15	2	1.43	?	2.04		.90	29th F	loor -		r Inset
	3	1.34	1.53	1.51	1.46	.87	11		"	"
 		1.32	1.81	1.35	1.49	1.36		- '		r Inset
 	- 4	1.32	2.38	1.20	1.63	(2.53)	- 11	" -	11 11	"
	5	1.23	1.64	1.44	1.44	1.59	11	11	11	"
	6	.95	1.98	.81	1,25	1.45	11	11	11	11
	7	.91	1.31	2.06	1.43	76	11	" -]	NE Corne	r Inset
	8	1.17	1.29	1.92	1.46	1.04	11	11	1 11	11
				<u></u>						
6/16	1	1.49	2.21	1.69	1.80	1.86	29th F	loor - S	W Corn	r Inset
	2	1.46	1.49	2.22	1.72	1.84	11			"
	3	1.71	1.53	1.41	1.55	1.02	11	11	,	11
	4	1.30	1.13	1.21	1.21	2.22	11	17	1 11	"
	5	1.47	1.57	2.59	1.88	.97	11	" - 9	SE Corne	r Inset
	6	1.42	1.55	1.58	1.52	1.09	11	11	1 11	"
				- 100	1.52	2,00				
6/17	1	1.18	2.04	1.13	1.45	1.51	27th F	loor - '	SE Corn	r Inset
	2	1.69	1.20	.95	1.28	.68	11	11	U II	"
	3	1.07	1.72	1.40			11	11	1 11	- ,,
	4	1.30	1.44	.69	1.40	1.22	11	11 (1 11	

		1.30	2.67	.89	1.62	(3.02)	11	" - 5	W Corn	r Inset
	6	.93	.92	1.45	1.10	1.31	11	11		-"-
		1.81	2.80	1.23	1.95	1.55	ļ	<u>-</u>		
	8	1.09	1.81	.86	1.25	1.49	+1	11 (1 11	"
		ļ			<u> </u>					
6/18	1	1.20	1.13	2.56	1.63	.77			E Corne	r Inset
	2	1.39	1.17	1.28	1.28	.28	"	11	1: 1:	"
	3	1.25	1.15	1.04	1.15	1.05	11	11	1 11	"
	4	1.15	1.69	2.68	1.84	1.05	11	11 1	1 11	11
ļļ	5	1.01	1.65	.60	1.09	1.84	27th F	loor - 1	W Corne	r Inset
	6	1.18	3.38	1.01	1.86	1.50	"	11	1 11	11
	7	1.65	1.82	1.11	1.53	1.12	11	11	1 11	"
	8	1.18	.93	.78	.96	1.66	11	11 1	11	11
6/19	1	1.29	1.26	1.19	1.25	.32*	.78	13th F	oor Ro	f-NE
	2	1.35	2.08	1.75	1.73	.35*	.76	11	11 11	"
	3	1.58	1.54	1.28	1.47	х	х	11	11 11	-SW
	4	.97	1.86	2.30	1.71	.32*	х	11	11 11	31
	5	1.18	1.60	1.91	1.56	.37*	.96	11	" "	"
	6	1.31	1.58	2.05	1.65	.25*	.27	*1	11 11	11
	7	1.72	2.49	3.16	2.46	.25*	.52	11	11 11	-SE
	8	1.36	1.64	2.25	1.75	.26*	.81	11	11 11	"
	*One mic. fixed at cen	1	1		1					
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	x = Equipment malfunct	i'bn.	<u> </u>	Copy o	f 0.P. t	ape inc	luded h	erein.	l	,

	OVERPRES COMP				FIRST NA			G		3 of 3
Date 1964	Flight No.	Test House #1	Test House #3	Test House #4	AVG. of 1,3,&4	FNB	Mi	c. Loca	ion @ 1	NB
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	2	1.27	1.90	.81	1.33	nre				
	3	1.56	1.93	.74	1.41	හි				
	4	1.73	1.26	1.86	1.62	ne			ions.me	asured
	5	2.06	2.27	.60	1.64	4		Floor,		-8
	6	1.51	2.01	.49	1.34	ou u		11	11	11
	7	2.19	1.49	1.68	1.79	ρį	11		11	!!
	8	1.21	1.64	_2.95_	1.93	0	11		11	
	·									
7/11	1	1.58	.70	.49	.92	1.94	14th F	loor - N	Vest Wal	1
	2	2.02	1.81	1.42	1.75	1.11*		11	11 11	၁
	3	1,86	.85	.61	1.11	1.26*		11	11 11	1
	4	.93	.81	.17	.64	.64*		11	11 11	Unit
	5	1.41	1.68	1.70	1.60	1.18#		11	11 11	
	6	1.36	1.31	1.16	1,28	(1,33*		**	10 31	Mobile
	7	1.81	2.03	1.65	1.83	(1.28*		11	11 11	Ϋ́O
	8	1.41	1.98	1.10	1.50	.85*	17	11	11 11	
			1	ctions	reasured	simult	aneous]	y with	hese 0	P.'s.
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	National Building b				 				<u> </u>	
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		1.09	1.20	1.63	1.31					
╟──┤	3	1.43	1.81	1.39	1.54	**.86	Street	level	(N) -Parl	
	4	1.09	2.24	1.16	1.50	**.67		11	(E) -Bro	1
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OVERPRESSURE MEASUREMENTS (Concluded)

However, note that microphone locations at FNB in every case are dissimilar to the regular microphone ground installations at the test houses.

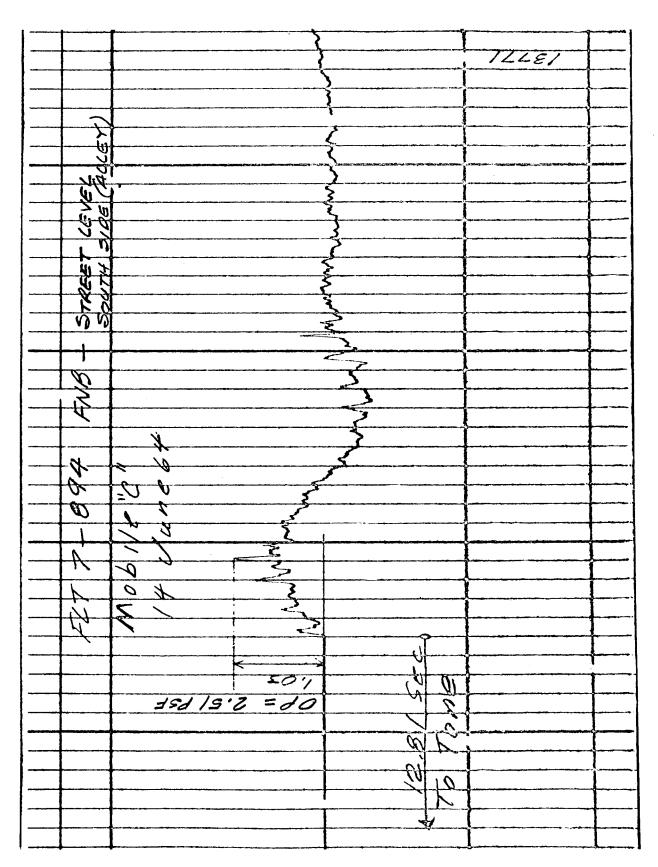
The maximum overpressure recorded at FNB during this study was 3.02 PSF in the extreme corner of the building inset at the southwest corner of the building at the 27th floor level on June 17 (Flight 5). Copies of this overpressure recording, along with other recordings of maximum measurements at other significant FNB locations, are included herein on pages 10, 11 and 12. Note the considerable variance in the nature of these recordings.

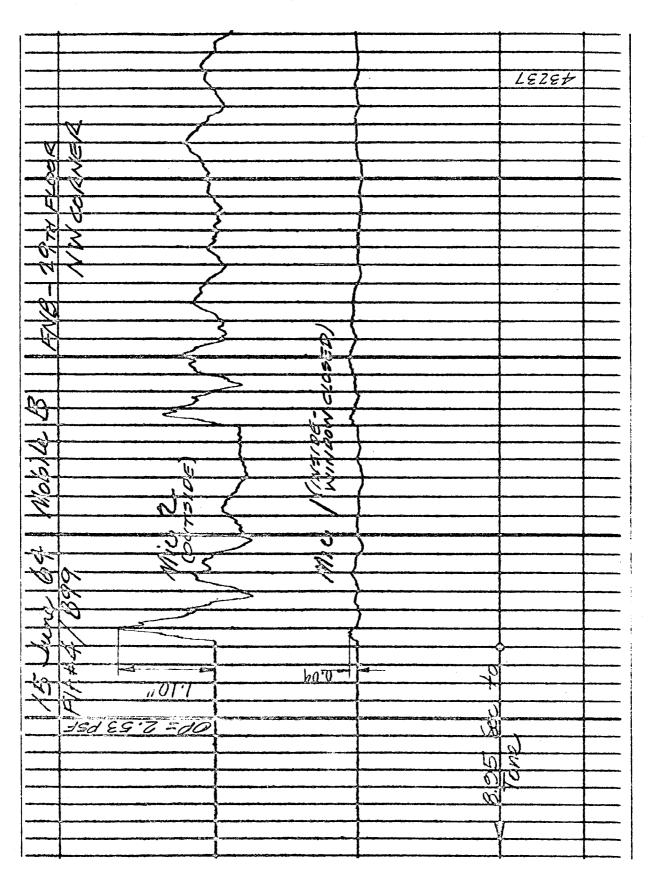
Other recordings showing wave forms (or "signatures") on the west wall of the building at the 14th floor level are included with the discussion on deflection measurements of windows.

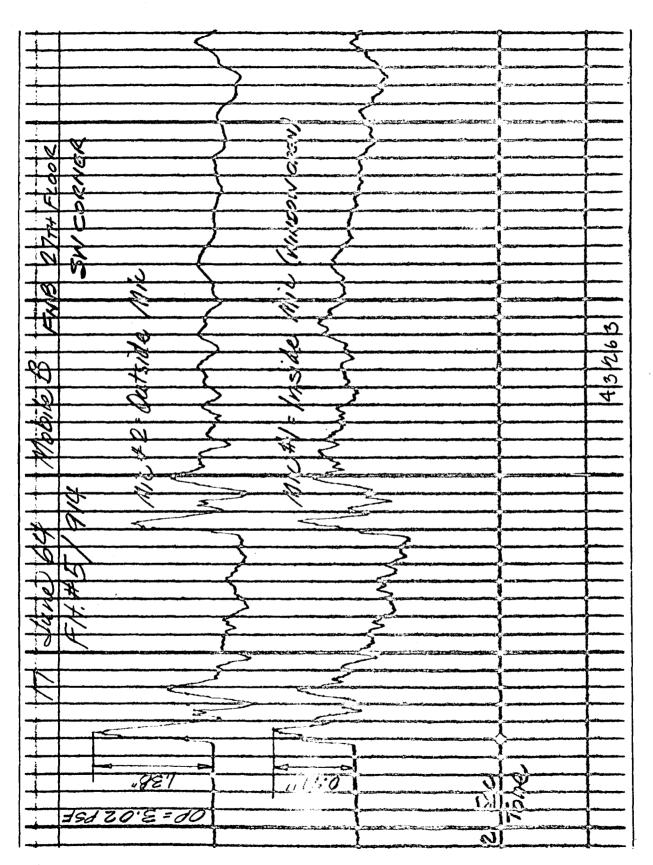
All of the test flights flown during this study were flown along the standard flight path using the F-101 airplane except Flight 2 on June 13 which utilized the F-106 airplane.

In connection with the very low overpressure values (.19-.35 PSF) measured at the bottom of the interior court of the building, it should be noted that the orientation of the building with respect to the flight path may be significant.

In connection with the simultaneous overpressure readings taken June 14th at street level and the 32nd floor level of the building, no significant difference in the general level of overpressures due to elevation differences is noted. However, it is noted that significantly greater values were recorded at street level in the alley on the south side of the building, but the nature of the wave form recorded (page 10) requires special study and analysis.







DEFLECTION MEASUREMENTS OF WINDOWS

On July 11, 1964, window deflections were measured simultaneously with overpressure for two windows of Room 1420 of the First National Building. This test was a continuation of an earlier test in which window vibration was measured but overpressure was not.

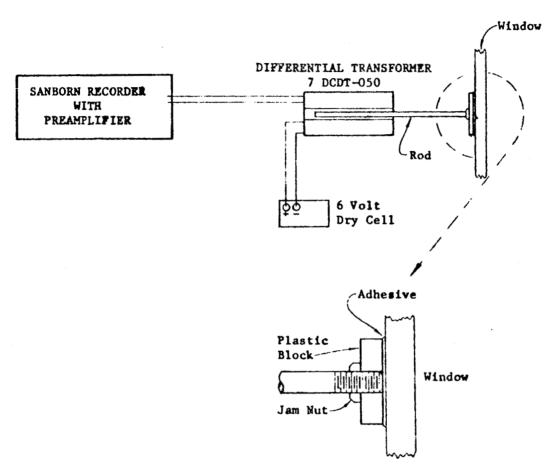
The windows both faced west, are located near the center of the west elevation (see page 4), and in each case are lower panes in double-hung metal sashes. One window, designated as #1414, had a small crack across one lower corner, but was structurally sound in all other respects.

The instrumentation system for the measurement of dynamic deflection of the windows is shown as Figure 1 on following page, and was the same as for the first series of tests; a small high frequency differential transformer coupled to a Sanborn recorder. Calibrate deflection for this test measured 24 mm, producing a displacement formula of y = .00278 inch/mm of recorder deflection. Examples of deflection recordings are included herein as pages 18, 19 and 20.

The Sanborn 7 DCDT-050 differential transformer is powered by a 6-volt dry cell and contains an internal oscillator-modulator as well as a demodulator. The output of this instrument is dc voltage proportional to the motion of the small rod inside the cylinder. The scale of this instrument is 30 volts/inch with a maximum linear range of \pm .050 in. The frequency response extends to beyond 300 cps. The differential transformer was mounted on an aluminum boom which in turn was mounted upon a heavy elevator tripod, permitting adjustments to be made easily.

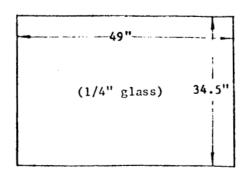
The Sanborn recorder has a heated stylus and a high gain preamplifier. The frequency response depends upon the deflection of the stylus, but is flat to around 90 cps which is quite adequate since the window frequencies are around 20 cps.

Figure 1. Instrumentation System



ROD ADJUSTMENT DETAIL

Figure 2. Window Dimensions



The natural frequencies of both windows were measured by striking the window and then recording the resulting vibration. The natural periods and frequencies of vibration are as follows:

Window	Period	Natural Frequency
1414 (Small crack)	.05 Sec.	20 cps
1415	.05 Sec.	20 cps

Dimensions of the glass are as shown in Figure 2 on page 14.

The deflections of the two different windows were measured with the microphone placed outside the third window (#1416) in Room 1420 to obtain overpressure.

(Note: All windows remained closed during the test.) The distance from the microphone to the other windows was approximately 15 feet.

Following is a compilation of the deflections and accompanying stresses related to overpressure values. No data was recorded for Flight 1 due to equipment malfunction. The overpressure values are peak pressures scaled from the recordings and are intended only for a gross comparison.

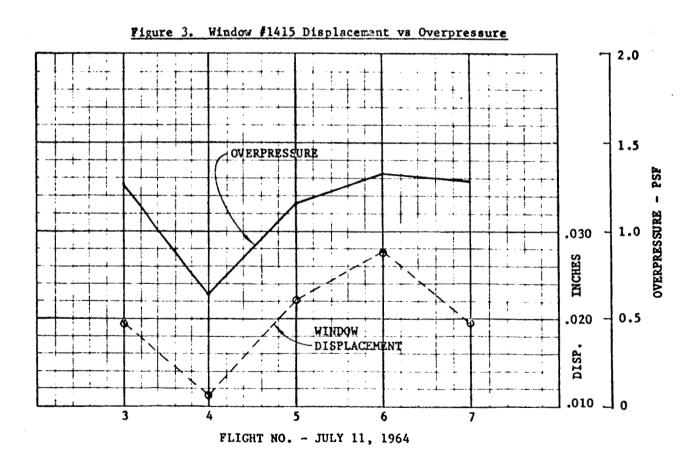
Flight	Window	Deflection mm	Displacement Inches	Peak Stress psi	Overpressure PSF
1	1414*	Equipment ma	lfunction	-	1.94
2	1414*	4.5	.0125	154	1.11
3	1415	7.0	.0194	239	1.26
4	1415	4.0	.0111	137	.64
5	1415	8.0	.0222	272	1.18
6	1415	10.0	.0278	342	1.33
	1415	7.0	.0194	239	1.28
8	1414*	3.0	.0084	103	.85

*Cracked

The stresses calculated near the center of the window are quite small and are low in comparison to the normal working stress of this type of glass. The highest stress calculated was 342 psi for Flight 6, with an overpressure of 1.33 PSF. The breaking stress of this type of glass could be taken as around 6,000 psi, indicating a considerable factor of safety for this level of overpressure.

Figure 3, below, is a plot of displacement and overpressure for Flights 3 through 7 on window #1415. As may be seen, there is a reasonably close correlation between overpressure and displacement. For example, consider Flights 3 and 7. In Flight 3 the displacement was .0194 inch, corresponding to an overpressure of 1.26 PSF. In Flight 7 the deflection was .0194 inch, corresponding to an overpressure of 1.28 PSF. However, in Flight 6, with an overpressure of 1.33 PSF, deflection was .0278. Overpressure recordings for Flight 6 and Flight 7 are herein included as pages 21 and 22 for comparison of these two wave shapes.

Since this analysis is based upon the measurement of the peak overpressures, it is possible that a closer correlation could be obtained if the over-all area of the wave, or the shape of the wave, was used instead of the peak pressure.



-16-

It may be of interest to note that the window deflections produced by rapping on the pane for the purposes of determining natural frequency in most cases equalled or exceeded the deflection produced by the overpressures occurring during the test.

Note that the deflection produced by rapping on window #1415 (page 18) amounts to 12 millimeters while the deflection produced from the 1.33 PSF overpressure (Flight 6 - page 20) amounted to 10 millimeters for same instrument settings.

Under certain conditions, greater window glass displacements than those recorded could possibly occur. If the time duration of the boom is equal to an integer multiple of the natural period of the window structure, a displacement amplification could result. Thus, under unusual conditions, the amplitudes could be roughly double those recorded here. In the case of window #1415, if the boom duration (N wave total length) was exactly .05 (probably impossible), .10, .15, .20, or .25 seconds, greater deflections could occur. (Note: Also, the direction of maximum deflection, i.e. in or out, could vary.)

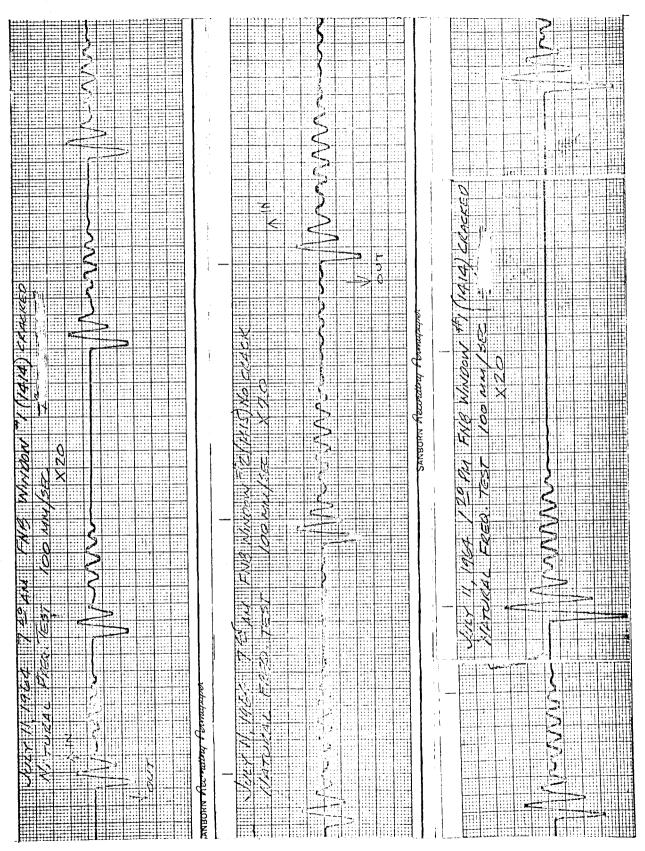
The shape of the "N" wave is important, and the preceding statement is based upon the assumption of the worst possible conditions.

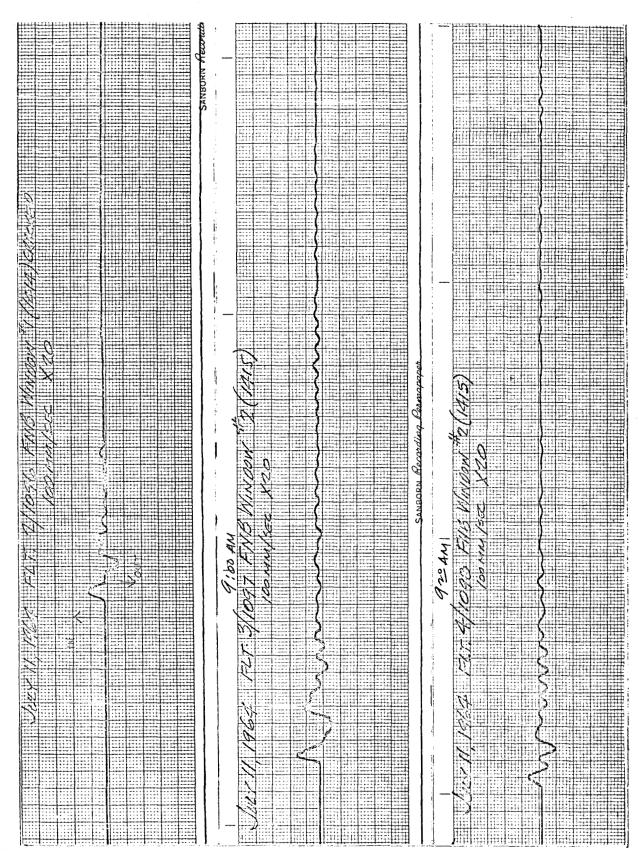
Considering a doubled amplitude response, these windows still would be subjected to less than the nominal working stress.

When a sonic boom impinges upon a complex of buildings, the resulting pressure wave will be considerably distorted due to the interaction of multiple reflections. Generally the duration of the wave will be longer and often the sharp rise period is rounded off; the character of the wave will bear little or no resemblance to the usual "N" wave as measured in a free field.

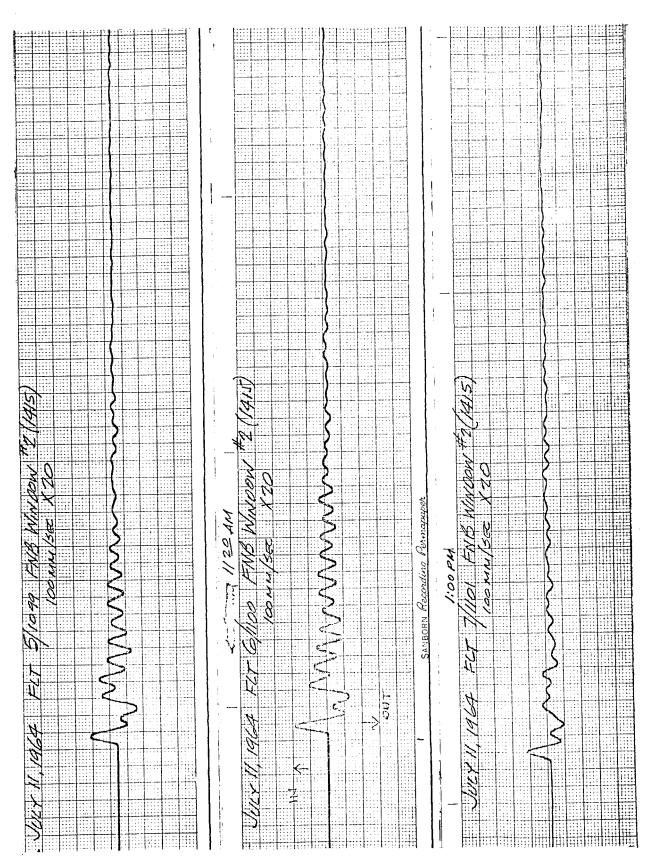
It would be impossible to predict accurately what overpressures might result at ground level in an area with many large buildings, without a careful geometrical analysis. The prediction of window stresses would be similarly difficult without considering the orientation of the adjoining structures. However, it is generally possible to predict instances in which pressure amplification can occur and to predict roughly the nominal resultant pressures.

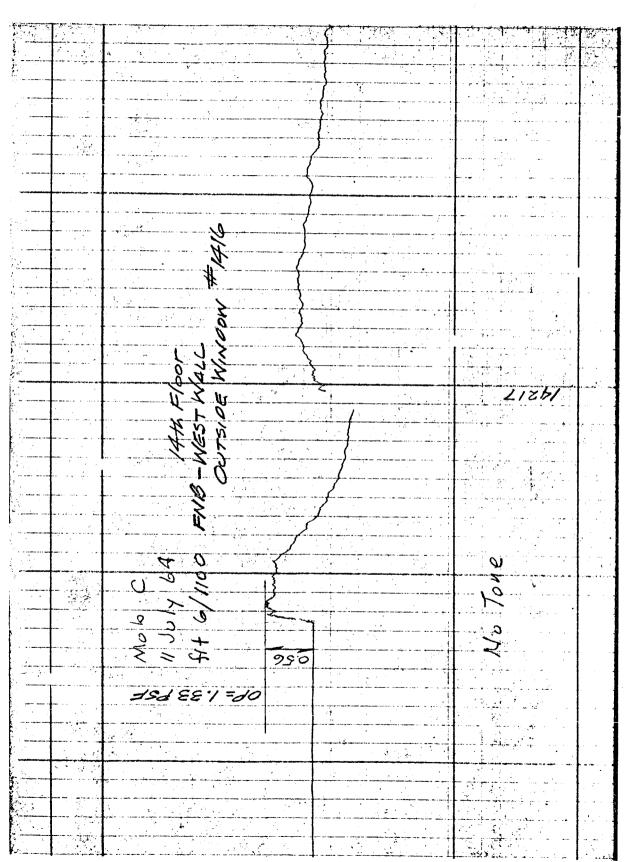
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				Oklahom		- 1964		URE S	1 of :
ate 1964	Flight Number	Aircraft	Course	Alt. (1000')		TH #1	TH #3	TH #4	Remarks
2/3	1/1	F-104	051°	36	1.5	0.76			- No Record
0/-	77			20		100	ļ		· · · · · · · · · · · · · · · · · · ·
2/4	1/2			37		0.76	1-	1	
0/-	1/-					1001	-	221	
2/5	1/3			37	 		0.41		
	2/4			36		0.57		0.39	
	3/5			37	 	0.77	0.83	0.43	
2/6	177			36		0.69	1,00	1.28	
46	2/7						1.06		
		 - - 		36		1.17	0.87		
	3/8			36		0.85	0.74		
	4/9	 		37	 -	0.83	0.83	0.72	
2/7	1/10			37	 	1.30	0.98	0.77	
71	2/11	 		37		0.85			
	3/12	 		38	 	0.83	0.83	0.86	
	4/13	+	-+-	38					
	5/14	 		38	1	0.73		0.56	
	-//4	+		30	1	10,15	10.10	450	
2/8	1/15	+-+-		36	1	0.84	1.02	1.22	
40	2/16	11		1-1		1.19	0.69		
	3/17	1				0.93	0.88		
	4/18	 			 	0.97	0.84		
	5/19	1			1	0.69		0.69	
	6/20	1		36	1.	1.00	0.89		
	720	1-1-1	+-	1	1	1.00	0.01	0.04	
2/9	1/2/	1-1-1		375	1	0.79	0.67	1_	
	2/22			38	1-1-	0.81			
	3/23	 		37.6		1.16	0.95		
	4/24	1		38		0.84			
	5/25		•	38	1.	0.88		096	
	6/26	F-104	051°	38	1.5	0.83	0.54		
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			WEEKLY SU	MARY OF Oklahom	FREE G	ROUND OV - 1964	ERPRESSI	JRE S	2 of 26
Date 1964	Flight Number	Aircraft	Course	Alt. (1000')	Mach No.	TH #1	TH #3	TH #4	Remarks
2110	1/27	F-104	0510	38	1.5	1.00	0.67	L T	No Record
-7,0	2/28	†		38		0.90		045	
	3/29	 		32		1.09	146	0.73	
		 		135		1.34	1.25	1.03	
	4/30			+				1.02	
	5/31	 				0.72	2.29		
	6/32					1.02	1.11	0.91	
	1/33	 		_		0.90		0.93	
	8/34	J				0.68	1.33	0.91	
							ļ <u>-</u>		
2/11	1/35					1.09	0.97	0.61	
	2/36						0.98	0.81	
· - ·	3/37					0.96	1.04	0.89	
	4/38				1.5	1.11	1.30	0.92	
	5/39	 	 	1	1.8	1.19	1.15	0,90	
		 	 	32	1"Y	0.81	1.17	0.65	
<u> </u>	6/40	 	-	30	1 1	1.09	1.15	1.10	
ļ	7/4/	 	 		1,8			1.10	
	8/42	 	 	30	1,0	0.66	1,52	+	
<u></u>	ļ.,. —		 			10.0	1000	201	
2/12	1/43		ļ	32	1.5	0.68		0.24	
_	2/44				L .	0.87		0.57	
	3/45		<u> </u>			068		0.49	
	4/46					1.40	0.70	0.79	
	1							1	
2/13	1/47					0.81	0.66	T	
1//2	2/48			32	T	1.02			
			 	T - · · · · · · · ·	1		0.92		
	3/49	 	 	30	+-+	1.77			
<u> </u>	4/50		 		- 	1.02	0.97	076	
<u> </u>	5/5/	_ _	 			1.51	1.89	1.61	
	6/52			30	11-	1.36			
L	7/53			32	1	1.11	1.22		
İ	8/54				1_1_	1.24	0.92	0.70	
			1			_L			
2/14	1/55					0.96	1.18	0.89	
27.7	2/56	 				T-	1.23	0.96	
 	3/57					1.07	0.84	0.75	
	4/50		1			1.36	0.70	0.71	
			 -		+	1.31		1.38	
_	5/59		+			1.22		1.44	
<u> </u>	6/60		 				000	0.62	
ļ	7/61					1.03			
	8/62					0.87	0.83	047	
					\bot			+	
2/15	1/63				. _	1.23	1.35	0.47	
	2/64			1		1.10	1.11	0.7/	
	3/65			32	_	1.93	1.19	0.48	
	4/66	1		35		1.18	0.74		
	5/67	-	1	32		0.81			
	6/68		- -	32	- -	0.58			
 	100					0,00	1000		
21.	1/69	- 		35	-	0.92		0.45	
-/16	7/69			32	-	1.14			1
 	2/10				-				
	3/7/			32		1.24			
	4/12			32	4-4	1.26			
L	5/73			3/_	_ _	1.04		0.52	
	6/74		1			1.12	1.31	0.68	
	7/15	1		1		1.43		0.18	1
	8/76	F-104	05/0	31	1.5				ŀ

	WEEKLY SUMMARY OF FREE GROUND OVERPRESSURES Oklahoma City - 1964										
)ate 1964	Flight Number	Aircraf	t Course	Alt. (1000')	Mach No.	TH #1	TH #3	TH #4	Remarks		
2/17	1/17	F-104	051°	35	1.5	1.25	1.55	0.66			
	2/18			32		1.31	0.92	0.92			
	3/19			31		1.12	1.46	0.84			
	4/80	 		32		1.40	1.31	1.11			
	5/81	 		1 75	 - -	1.08	0.87	1			
		 			 			0.78			
	6/82					1.33	0.71	0.81			
	7/83	1		32		0.95	0.76	0.62			
	8/84			3/		0.97	0.74	0.32			
	ļ	<u> </u>				J					
1/18	1/85	<u> </u>		35	İ	132	0.98	0.99			
	2/86			35	1.5	1.09	1.33	1.13			
	3/87			32	1.8	1.88	0.76	0.78			
	4/88				1.5	1.32	191	0.70			
	5/89	1	11		117	1.70	1.01	0.32			
	6/90	 		1 1		0.75	1.95	2.69			
	1/91	 			 						
	8/92	++-	0510	200	 	1,21	1.23	0.59	 		
	1142	+ +-	1031	32	 	1.40	1.05	0.72			
2/19	1/93		122/0	 	 	1	101	0.40			
119		 	23/°	35	 	058	174	0.42			
	2/94	1		35	 -	1.10	0.74	0.42			
	3/95	 	_	32	 	103	0.91	0.42			
	4/96			32	 	1.18	1.35	1.37			
	5/97			31		1.18	1.38	0.85	<u> </u>		
	6/98			3/		1.65	0.90	0.38			
	7/99			32		122	086	0.66			
420	1/100					1.17	131	0.48			
<u> </u>	2/10/					1.00	1.99	0.41			
	3/102					1.17	0.90	0.45			
	4/103	1 			1-1-	0.82	1.24		 		
	5/104	 			 	0.67	1.25	0.37	<u> </u>		
	6/105	+		32				0.31			
		+	231°			0.73	0.96	0.19			
27.	7/106				├─- ├	0.7/	0.39	0.56			
2/21		 	0510	32	├├		1.00	0.70	No Record		
	2/108					1.36	1.19	0.91			
	3/109				11	1.28	1.18	1.01			
	4/110					1.15	1.34	0.90			
	5/11/					1.13	0.74	0.80			
	6/112	1 1]].	1.78	068	062			
	7/113			1.		0.89	0.46	1.23			
	8/114			32		0.87	0.65				
2/22	1/15	\top		35	1 1	287	1.05	0.80			
	2/116	 		35	 	1.02	0.97	0.81			
	3/117	+			++						
	4/118		 	32	 	<u> - </u>	1.32	0.92	 		
	5/10				┼┼-	1.17	1.25	0.90			
	5/119				 	1.36	1.06	100	<u> </u>		
	6/120				1	1.34	0.93	0.53			
	7/12/				 	1.15	0.72	0.90	<u> </u>		
1	8/122		<u> </u>	32	┼ ┈┼	1.60	0.76	0.27			
123	1123			35		1.25	0.98				
	2/124			35	1	1.06	1.04				
	3/125			32	1	1.40	1.55	0.95			
	4/126				<u> </u>	1.15	1.34				
	5/127				\bot \top	1.30	1.36	1.13			
	6/128					1.06	1.60				
	7/129		1			0.89	0.93	0.89	1		
	8/130	F-104	0510	32	1.5	134	0.69	0.47	<u> </u>		

STRUCTURAL RESPONSE TO SONIC BOOMS APPENDIX C1 WEEKLY SUMMARY OF FREE GROUND OVERPRESSURES Oklahoma City - 1964 4 of 26 Flight Date Alt. Mach 1964 Number Aircraft TH #1 Course (1000') TH #3 No. TH #4 Remarks 2/24 1/13/ F-104 0510 35 1.96 0.81 No Record 21132 31133 35 0.90 0.83 0.52 32 1.03 0.57 0.93 4/131 1.22 0.90 1.04 5/135 1.37 093 1.42 6/136 32 1.5 0.47 1.49 0.57 7/137 34 0.99 1.03 1.8 1.32 8/138 F-104 0510 32 1.5 1.52 0.74 0.63 2/25 ALL FLIGHTS CANCELLED 2/26 //39 0510 F-104 35 1,5 1.05 1.04 103 2/140 <u> 35</u> 092 1.02 0.69 3/14/ 32 0.92 0.95 0.78 4/142 32 1.24 1.19 1.12 5/143 31 1.21 1.28 1.08 6/144 31 131 092 1.40 7/145 1.37 1.25 1.43 30 8/146 30 1.49 1.17 0.89 2/27 1/147 32 0.69 0.81 0.54 2/118 32 0.84 0.83 115 3/149 31 087 1.05 113 4/150 31 093 1.35 1.04 5/151 30 1.06 1.58 1.12 6/152 235 30 1.47 097 7/153 32 1.69 0.54 1.89 8/154 32 1.63 0.20 1.06 2/28 1/155 102 1.10 0.81 2/156 1.08 090 07/ 3/157 080 0.84 0.85 4/158 32 088 0.96 0.59 5/159 0.68 0.97 3/ 0.92 6/160 3/ 076 1.05 067 7/16/ 3/ 1.11 2.16 1.03 8/162 30 1.28 1.03 0.46 1/63 4/29 0.87 0.97 0.99 2/164 35 0.85 0.93 070 3/165 35 0.79 2.88 1.00 4/166 33 1.45 1.13 1.73 5/167 31 0.98 1.30 1.18 6/168 31 1.62 0.81 1.40 7/169 35 1.60 1.83 1.20 8/170 35 0.67 1.01 0.13 3/1 1/171 32 099 1.28 1.10 2/172 0.96 134 0.79 3/173 1.15 097 0.69 4/174 0.70 1.06 0.88 5/175 1.73 0.94

0.98

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F-104

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WEEKLY SUMMARY OF FREE GROUND OVERPRESSURES
Oklahoma City - 1964

5 of 26

	Oklahoma City - 1964						1964 5 of 26			
Date 1964	Flight Number	Aircraft	Course	Alt. (1000')	Mach No.	TH #1	TH #3	TH #4	Remarks	
3/2	1/177	F-104	0510	35	1.5	0.80	0.70	1.17		
	21178					1.34	1.35	0.50		
	3/179	 				1.11	0.88	0.79		
	4/180	1		35		1.24	1.03	1.16		
	5/181	1		32		1.30	0.79	0.68		
		+		126		1.47	1.07	0.75		
	6/182	 				1.41	1.01	7,73	1	
3/2	1/183	 				0.99	1.15	0.72	<u> </u>	
72	2/184	1 1					1.19	0.67		
	3/185	 				0.76		0.61		
		+		+	 	0.56	1.12		 	
	4/186	+				0.50	1.40	0.92	<u> </u>	
	5/187	 				1.48	0.80	0.63	 	
	6/188	 				1.55	0.80	0.74	 	
	7/189	 			 	1.05	1.80	0.38		
	8/190	1			 	1.01	0.92	0.81		
2/1	1/101	 			 	-	07/	10.47	1/2 0	
2/4	1/191	 			 	1	0.7/	0.46	No Record	
	2/192			- 	 	0.80	0.65	0.31		
2/-	1/100			+-+-	 				 	
75	1/193			1	\vdash	0.87	 	0.87	<u> </u>	
	2/194			32	1	0.91	101	0.91		
	3/195			30	1.5	1.13	1.50	0.85		
	4/196	1			1.7	1.07	1.15	1.05	<u> </u>	
	5/197		•		1.5	0.97	1.14	2.88		
	6/198				1.7	0.27	1.49	0.86		
	7/199				1.5	0.75	1.23	0.96		
	8/200				1.7	1.24	1.32	0.79		
3/6	1/201				1.5	0.75	0.95	0.67		
	2/202				1.7	1.40	413	0.90		
	3/203				1.5	0.67	0.99	1.02		
	4/204				1.7	1.20	1.03	0.88		
	5/205				1.5	0.93	1.07	0.79		
	6/206	1			1.7	1.34	1.14	0.67		
	7/207				1.5	1.82	0.74	0.50		
	8/208		 		1.7	1.02	1.12	0.80		
	0/208	-			1.1.	1.02	1.12	0.00		
3/7	1/209	+	 		1.7	0.32	0.37	 	NOTE: Oll flights	
-/_/_	2/2/0					0.46	0.45	0.28	this date were	
	1 4 /.		 		1.7					
	4/2/2		 	- - -	1.5	10-1	0.50	0.78		
		+			1.5	0.56	069	0.41	porth of norma	
	5/2/3	 	 - -		1.5	0.54	0.7/	+	HIGHT PATA.	
	6/2/4		 	-1-1	1.7	0.64	041	0.55	ļ	
	7/215	1 1 1	0.7/2	1	1.5	0.58	031	0.28		
	8/216	F-104	05/°	30	1.7	0.63	0.80	0.30		
2/-					 			- 		
3/8	ALL	FLIGHT.	5 CANC	ELLED	 					
		-1						 		
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Date	Flight			_	Alt.	Mach		m, 42	TH #4	Remarks
1964	Number	Aircra		Course	(1000')		TH #1			Remarks
3/9	1/2/7	F-10	4	05/0	30	1.5	0.83	0.68	0.38	
	2/2/8		_		30_	1.7	1.13	1.02	061	
	3/2/9	L			29	1.5	0.77	0.69	0.25	
	4/220		_		29_	1.7	0.97	1.43	0.24	
	ļ	ļļ				ļ		1.01		
3/10		 				1.5	1.15	1.24	0.88	
	2/222		_			17	1.31	1.07	0.64	
	3/223	<u> </u>				1.5	131	0.94	0.66	
	4/224		_			1.7	1.25	1.27	0.75	
	5/225	-	_			15	1.12	1.31	0.62	
	6/226			·		1.7	1.72	1.26	1.21	
	7/227	ļļ				1.5	0.83	0.93	1.07	
	8/228	ļ	_ -			1.7	1.44	1.20	0.57	
21	1/	 	-+			1	110	100	0.72	
3/11	1/229		-			1.5	1.42			
	2/230					1,7	0.88	1.04	0.75	
	3/23/	 	_			1.5	1.20	0.87	0.34	
	4/232					1.7	1.40	1.61	1.11	
	5/233					1.5	1.66	1.7/	0.47	
	6/234					1.7	1.13	0.99	1/3	
	7/235					1.5	0.65	1.07	0.46	
	8/236					1.7	0.81	1.45	1.07	
3/12	1/237	+-+	-			1.5	1.29	0.98	1.06	
2//2	2/238	1				1.7	1.09	1.17	0.88	
	3/239	+	\dashv			1.5	1.29	1.22	0.82	
	4/240	 	\dashv		- - -		1.44	1.22	0.85	
		++-				1.7	0.86	1.27	1.10	
	5/241		\dashv			1.7	0.94	1.50	1.81	
	6/242	+				1.5		1.15	1.00	
	8/244	 -	\dashv				1.18	1.43	1.42	
	01244	 	\dashv			1.7	1.13	1,73	1.44	
3/13	1/245		-			1.5	0.91	1.20	0.78	
7/3	2/246	1	\dashv			67	1.80	0.87	0.64	
	3/241	- 				1.5		1.70	0.54	
	4/248	1				1.7	1,29	-	033	No Record
	5/249	1 1				1.5	1.24	1.65	0.90	1
	6/250	 	\neg			1.7	0.82	1.50	1.10	
<u>`</u>	7/251	 	\rightarrow			1.5	0.99	0.66	1.08	
	8/252		$-\dagger$			1,5	1.37	1.16	0.78	
	0/252		\dashv		+	1.0	1.27	1.72	0.70	
3/14	1/253	+				1.5	1.15	1.88	0.57	
J-3-/-7-	2/254					1.7	1.37	1.48	1.19	
	3/255					1.5	1.09	0.90	0.78	
	4/256	1-1				1.7	1.15	1.34	1.12	
T	5/257	1				1.5	1.32	1.13	0.40	
	6/258	1 1				1.7	0.75	225	0.87	
<u> </u>	7/259	1 1	$\neg \uparrow$			1.5	2.24	2.10	2.03	
—	8/260	1 1			29	1.7	0.78		_	
3/15	1/26/				30	1.5	0.82	1	0.82	
1 7/5	2/262	+			17	1.7	1.19	1.24	0.87	
-	3/263	+				1.5	1.30	1.34	1.11	1
	4/264	+-+		 		1.7	1.28			
		- -			-+-+				0.96	
<u> </u>	5/265	 		 		1.5	0.72	1.41	1.69	
t	6/256	F-10		051°	30	1.5				

			WEEKLY SUM			OUND OV - 1964	ERPRESS	URES	7 of
Date 1964	Flight Number	Aircraft	Course	Alt. (1000')	Mach No.	TH #1	TH #3	TH #4	Remarks
3/16	1/268	F-109	05/0	30	1.5	1.22	1.45	0.74	
	2/269			30	1.7	1.27	1.42	0.92	
	3/270			33	1.5	101	198	0.93	
	4/27/			33	1.7	1.14	1.19	1.06	
	5/272			35	15	1.58	1.13	0.85	
	6/273			35	1.7	0.73	1.11	1.76	
3/17	1/274			29	1.5	1./7	0.99	0.55	
7/	2/215	1 - 1 - 1		29		0.96	1.47	1.01	
		 		 	1.7				<u> </u>
	3/276	+		100	1.5	1.48	0.99	0.60	
	4/277			29	1.7	0.98	129	0.72	
	5/278			28	1.5	109	1.16	0.55	
	6/279	1			1.7	1//	2.04	1.04	
	7/280			1	1.5	1.07	1.10	0.55	
	8/281			28	1.7	1.23	1.18	0.77	
3/18				29	1.5	1.19	1.42	1.08	
	2/283			29	1.7	1.15	1.31	0.74	
	3/284			28	1.5	1.03	1.17	1.08	<u> </u>
	4/285			27	1.7	1.25	1.58	1.18	
	5/286				1.5	1.60	1.72	0.62	
	6/287				1.5	1.46	1.34	0.90	
- <u>-</u>	7/288		1		1.5	0.99	1.80	1.21	
	8/289	F-104	051°	27	1.7	1.11	1.27	1.52	
3/19	1/290	FLIGHTS F-104	CANCE 051°	ELLED	1.7	0.88	118	0/7	
-720	2/291	7-707	03/	27	1.7	1.95	1.51	0.93	
	3/292	 		27	1.7	0.98	1.37	1.27	
	4/293	+		29	1.55		0.98	067	
		+	 		1	0.78			
	5/294		 	27	1.5	1.51	1.10	0.40	
	6/275	+		+-+-	1.5	0.90	1.48	0.91	
3/21						1.23	1.17	070	
	2/297			27	1-1-	1.19	1.24	0.78	
	3/298			26		1.09	1.43	0.66	
	4/299	<u> </u>		27	<u> </u>	1.15	089	0.57	
	5/300			26	1.5	1.25	0.92	0.43	
	6/30/			30	1.7	2.10	1.65	0.56	
	7/302			29	1.7	1.10	1.40	0.85	
3/22	1/303			30	1,5	1.19	1.43	1.08	
	2/304				1.7		1.10	1.23	
	3/305				1.7		1,61	0.88	
	4/306				1.5	1.51	1.91	1.23	
	5/307			T-T-	1.5			0.93	No Record
	6/308				1.7	1.42	1.39		
	7/309	1			1.5		1.09	0.55	·
	8/310	F-104	0510	30	1.7		1.07	0.71	
	0/5/0	1	1	100	1	1.07	1	10.71	1
	 	1		1	1	1	1		<u> </u>
	+		1		1	1	 		1
	+		 		+		1	+	
	+		T		†		1		

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			WEEKLY SUM	MARY OF DOCUMENT			erpressi	JRE S	8 of 26
Date 1964	Flight Number	Aircraft	Course	Alt. (1000')	Mach No.	TH #1	TH #3	TH #4	Remarks
3/23	1/311	F-104	0510	30	1.5	1.11	1.32	1.52	
	2/3/2	F-104		30	1.5	1.17	1.17	0.65	
	3/3/3	F-104		30	1.5	1.05	1.34	0.93	
	4/314	8-58		49.9	2.0	1.68	2.32	1.70	
	5/3/5	F-104		30	1.5	1.48	1.07	0.56	
ļ- 	6/316	/ 15 /			1.7	1.01	1.83	0.74	
	7/3/7			1	1.5	0.86	129	0.81	
	8/3/8			 	17	1.21_	1.07	0.94	
	0/3/0	 		 		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		
3/24	4/319			+	1.5	1.36	130	0.69	
727	2/320	 		 	1.7	1.34	152	1.76	
	3/321	 		++	1.5	1.02	1.32	1.09	
	4/322	 		11	1.7	1.24	2.30	1.02	
ļ								1.30	
<u> </u>	5/323	 		+	1,5	0.80	066		
<u> </u>	6/324	 -	 	 	1.5	0.80	110	0.26	
	7/325		 		1.7	1.06	1.3/	1.06	No Record
<u> </u>	8/326	F-104		30	1.7	0.84	1.14	<u> </u>	IVII ICEGORO
2/	1/2-1-	0 -0	ļ	1-1-0		1,00	+	1	
3/25	1/327	8-58		499	1.9	1.32	1.03	1.03	
	2/328	F-104	<u> </u>	30	1.7	1.35	1.25	0.49	
<u> </u>	3/329	 	ļ	-		1.03	1.05	0.39	
	4/330				ļ	1.03	0.88	0.39	
	5/331	 			17	1.13	0.88	0.85	
3/26	1/332				1.5	0.87	1.28	0.66	
L	2/333			<u> </u>	1.7	1.23	1.25	1.96	
L	3/334	F-104		30	1.7	1.15	1.04	096	
	4/335	8-58		49.9	2.0	2.38	1.69	1.35	
	5/336	F-104		30	1.5	1.29	1.28	1.20	
	6/337				1.7	<u> </u>	1.34	0.93	
	7/338				1.5	1.13	0.96	0.75	
	8/339				1.7	1.55	0.99	2.35	
3/27	1/340				1.5	1.13	126	106	
	2/341				1.7	1.11	079	081	
	3/342	F-104		30	17	0.89	1.59	1.02	
	4/343	B-58		499	2.0	1.45	1.74	1.47	
	5/344	F-104		30	1.5		1.42	0.86	
	6/345	1 7		1 1	1.7		1.54	1.39	
 	7/346	 	†		1.5	1.38	1.20	214	
	8/347				1.7	1.31	1.56	1.06	
3/28	1/348	 	 	+	1.5	1.03	104	0.61	
740	2/349	+	 	- -	1.7	128	0.78	0.46	
-	3/350	+-+-	+		1.5	0.49	1.23		
		+	+	- -	1.7	1.24	1.71		
-	4/351		+				2.30		
	5/352	 	+		1.15				
-	6/353	+-+-	 		1.7.	1295	1.43	0.61	
L	7/354	+-+-	1 0010		1.5		1.45	0.36	
	8/355	F-104	05/0	30	1.7	1.18	0.68	0.83	
3/29	ALL	FLIGH	TS CANC	ELLEL					
					. }		+		
1	1	1	_L	1				1	1

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Date 1964	Flight Number	Aircraft	Course	Alt. (1000')	Mach No.	TH #1	TH #3	TH #4	Remarks
3/30	1/356	F-104	051°	30	1.5	0.94	1.23	1.20	
	2/357				1.7	0.77	1.43	0.89	
	3/358				1.5	1.10	0.89	0.56	
	4/359				17	1.00	1.58	0.14	
	5/360					1.04	0.75	025	
				+	-	0.58	1.17	-	No Record
	6/361	 			 				NO RECORD
	7/362			7.0	!	1.75	0.75	0.84	
	8/363	ļ		30	1.7	0.66	0.65	039	
	ļ. <u>, </u>	<u> </u>					ļ	<u> </u>	
3/3/	1/364			29	1.5	0.99	1.17	<u> </u>	
	2/365				1.7	1.24	1.30	-	
	3/366				1.5	1.22	1.35	_	
	4/367				1.8	1.06	1.20	_	
	5/368			+-+-	15	1.02	1.21		
		 						0.94	
	6/369	 -			1.7	1.20	0.90		
	7/370	 		1	1.5	1.14	1.23	0.84	
	8/371	<u> </u>		29	1.7	1.02	2.09	1.42	
_,,					ļ	ļ	<u> </u>	ļ	
4/1	1/372		l	28	1.5	1.30	1.09	1.02	
	2/373	1 1			1.7	177	1.20	1.18	1
	3/374				1.5	1.19	1.35	1.18	
	4/375				1.7	1.09	1.16	0.33	
	5/376			111	1.5	1.20	097	0.51	
		 	 			1.20	1.10		
	6/377		 		1.7			0.76	
	7/378	 	ļ		1.5	1.43	1.91	1.07	
	8/379				1.7	0.81	0.92	0.49	
			<u> </u>		<u> </u>		1		1
4/2	1/380	1 1	1		1.5	0.94	0.94	060	
	2/38/				1.7	1.04	1.59	0.80	
	3/382				1.7	1.13	1.74	0.69	
	4/383	†	 		1.7	1.17	1.46	1.70	
	47303	 	 		 "/-	1	1.70	1110	
16	1/2-01	 			100	1,	1.,,	+	<u> </u>
<i>4/3</i>	1/384	 	 		1.5	1.56	1.11	0.64	
	2/385		ļ		1.7	1.03	0.93	1.04	
	3/386			1	1.5	1.30	1.08	133	
	4/387	1 1		.	1.7	1.09	0.89	0.99	<u> </u>
	5/388				1.7	0.97	1.67	0.79	
	6/389				1.7	1.22	1.11	0.55	
-	7/390				1.5	1.35	0.80		
	8/39/	F-104	051°	28	1.7	0.72	093	1.78	† · · · · · · · · · · · · · · · · · · ·
	0/39/	7.704	V31	10	-///-	10.12	1275	11.10	
11.	 	5 4 1/2	1		 -				
4/4	ALL	- FC16H1	S CANC	EXLED				_	
	1				<u> </u>	_	ļ	<u> </u>	
4/5		F-104	051°	28	1.7	1.53	0.91	0.25	
	2/393					1.03	1.59	0.67	
	3/394					0.92	0.84		
	4/395	1-1-	1		17	1.03	1.18	0.74	
	5/396	+	† † †		15	0.69	0.66		<u> </u>
		- 	 	-+-+-					
	6/397	+	 		1.7	1.93	1.00		
	1/398	1-1-	+	1	1.5	0.90		0.45	
	8/399	F-104	05/0	28	1.7	2.26	1.12	1.04	
	1				1			1	
					<u> </u>				
	T	- [1		ſ	1	1		1

·		10 of 26							
ate 964	Flight Number	Aircraft	Course	Alt. (1000')		TH #1	TH #3	TH #4	Remarks
4/6	1/400	F104	05/0	18	1.5	1.11	1.42	1.02	
	2/401				1.7	1.28	1.14	1.08	
	3/402				1.5	0.96	2.24	1.17	
	4/403				1.7	1.32	1.23	0.66	
	5/404				1.5	0.96	1.73	126	
		 			1.7	1.11	1.40	0.59	
	6/405	 				0.76	0.53	0.79	
	7/406			+	1.5		128	1.06	
	8/407			_	1.7	1.27	1.20	1,00	
		ļļ				100	100	1000	<u> </u>
17_	11408				1.5	1.39	1.98	0.55	
	2/409				1.7	1.57	299	0.86	
	3/4/0				1.5	1.16		0.82	No Record
	4/4//				1.7	1.15	<u> </u>	0.94	
	5/4/2				1.5	1.11	1.94	2.54	<u> </u>
	6/4/3				1.7	1.45	1.90	1.48	
		 		1-1-	1.5	1.64	1.46	1.15	
	7/4/4	 		+-+-	1.7	1.70	133	0.83	
77.	8/4/5	 		- - -	1.5	1.09	116	0.62	
18	1/4/6	 		 					
	2/4/7	 			1.7	1.24	1.35	1.13	
	3/4/8				1.5		1.33	1.08	
	4/4/9				1.7	0.86	1.39	1.04	
	5/420	1			1.5	1.22	1.14	0.84	
	6/421				1.7	0.99	1.77	0.87	
	7/422				1.5	1.59	1.65	0.83	
	8/423				1.7	1.38	1.27	1,05	
19				+	1.5	1	104	0.83	
14	1/424		 			1.48	1.37	0.91	
	2/425		 		1.7		2.34	1.04	
	3/426		ļ <u> </u>		1.5	1.16		1.04	
	4/427		ļ		1.5	1.30	1.14		_
	5/428				1.5	1.75	2.30	0.72	<u> </u>
	6/429	ļ l	<u> </u>		1.7	1.01	1.61	1.06	
	7/430		1		1.5	1.12	2.54	0.31	
	8/43/					0.90	1.14	0.54	
410			1			1.06	1.44	0.78	
110	2/433	-	 			1.35		0.87	
			1		+	1.14	1.40	170	
	3/434				1		2.15	1.13	
	4/435		 		 	0.93	1.52	0.51	
	5/436	<u> </u>	<u> </u>	- 1	1	097			
	6/437	F-104	<u> </u>	28	1.5	0.85		1.24	
_	7/438	F-101		33	1.4		2.18	2.61	
	8/439			33		1.62	2.00	0.73	
4/11				34		1.83	1.21	1.00	
	2/44/	1		34		2.26		1.00	
	3/442	F-101		34		1.49			
		F-104		28	1.4			1.32	
	4/443	17-10-	 	1	1.5			0.72	
	5/444	 	 		1 "T				
	6/445		 		-} -	1.10		085	
	7/146		 			1.62			
4/1					_	1.21		1 -	T " "
	2/448				_	0.99			
	3/449		<u> </u>		_ .	1.05			
	4/450					0.88	0.70	1.26	
	5/451	-				1.25			
	6/452		 		1	1.36			
			 1			0.80			
	7/453	F-104	0510	28	1.5			0.40	

		11 of 26								
Date 1964	Flight Number	Aircraft		Alt. (1000')	Mac No		тн #1	TH #3	TH #4	Remark s
4/13	11455	F-104	0510	28	1.5	5	1.36	1.02	0.85	
	2/456						1.34	1.35	0.91	
	3/457	 		1	1			134	0.99	
	4/458	 	 	 	1	}				
	17420	 		 	\vdash		1.44	1.35	0.62	
	5/459	 	 				1.55	1.71	1.45	
	6/460						1.17	1.93	0.61	
	7/461					!	1.04	2.14	0.52	
	8/462						1.51	247	0.51	
				T						
4/11	1/463			 			1.15	111	1.33	
777	2/464			 	-					1/0
	3/465	 	 		-		0.97		2.06	No Record
	7463	 					1.01	1.30	1.56	
	4/466	 		 		1	093	0.89	1.49	
	5/467	<u> </u>		 _			1.01	1.97	0.61	
	6/468					\Box	1.71	0.67	1.26	
	7/469							280	0.90	
	8/470						1.32	0.87	1.33	
	1 / / /			1-1	+		11,00	0.01	1.22	
4/15	1/471	 		++	 -		100	121	0.00	
1/3		 		 	\vdash		0.83		0.87	
	2/472	 		<u> </u>	L		1.02	1.38	0.63	
	3/473	l					1.25	1.09	0.61	
	4/474	<u> </u>					0.97	232		
						Ī				
4/16	1/415						1.00	1.13	0.87	
	2/476			 			095			
	3/477	 						0.66	0.97	
				+			0.85	1.53	0.52	
	4/478	 					0.81	1.55	1.02	
	5/479	 					0.83	1.02	03/	
	6/480					1	0.75	153	0.70	
	7/481					- 1	0.92	1.15	0.40	
	8/482						1.16	1.10	050	
								1	2.20	
4/17	1/483						1.26	101	044	
	2/484			+	\vdash					
	3/485	 		1				1.51	0.49	
		 					1.13	1.16	1.06	
	4/486	 					1.75	051	0.68	
	5/487	ļ					0.92	1.31	1.39	
	6/488						0.84	0.95	0.49	
4/18	1/489						0,93	1.37		
	2/490			1 1			1.03	1.80		
	3/49/	1		1-1-1	 					
	4/492	t		 			0.89	1.32	 -	
		 		+	-		0.37	1.21		
	5/493	 - - 		+			0.95	1.39	0.81	
	6/494	 					0.66	0.78	0.96	
	7/495						1.09	1.04	0.55	
	8/496						1.05	1.19	0.51	
	,							ľ		
4/19	1/497						0.81	252	0.83	
	2/498	1		1 1 -				1.89		
	3/499	 		 	\vdash	 	1.05		0.69	
		 		 	 -		1.03	1.00	055	
	4/500	 					1.47	1.73	0.56	
	5/501	 			L		0.95	1.11	0.43	
	6/502	<u>L</u> L						1.26	0.55	
	7/503						1.55	0.63	0.52	
	8/504	F-104	051	28	1.5		1.03	1.71	0.72	
	<u> </u>	 				¥	·	<u>''' / / / </u>	10010	

-			12 of 2						
Date 1964	Flight Number	Aircraft	Course	Alt. (1000')	Mach No.	TH #1	TH #3	TH #4	Remarks
4/20	1/505	F-104	0510	28	1.5	0.95	1.15		No Record
	2/506					1.22	158	_	
	3/507					0.57	0.69		
	4/508					0.87	0.72	-	
	5/509					1.12	1.08	_	
	6/5/0			1-1-1		1.14	0.48		
	7/5//	1 1 1		1-1-1		1.14	1.48		
	73//	1 1 1		+		1.14	1.70	 	
4/21	1/5/2	+		+		100	100	000	
161	2/5/3	 				1.32	1.20	0.88	
		 		 		0.98	1.44	072	
	3/5/4	 		1	_	1.36	1.01	1.04	
	4/5/5			1-11		1.20	1.18	0.87	
	5/5/6					1.81	0.90	0.67	
	4517					1.42	135	2.15	İ
						1			
422	1/518					1.25	0.72	0.41	
	2/5/9					0.96	1.83	181	
	3/520					0.93	0.79	1.25	
	4521					1,49	1.34	0.86	
						177	7.07	Lieb	
4/23	1/522					1.05	126	1.16	
<u>, -U</u>	3/523			 	-+				
	3/524	 	 -	 		0.80	1.17	1.02	
	1/5/24	 				0.97	0.79	0.78	
	4/525	 		1-1-1		1.13	0.81	0.83	
	5/526					0.88	0.67	0.56	
	6/527			11_		0.73	1.23	0.67	
	7/528					1.11	1.14	0.43	
	8/529					1.41	1.04	0191	
4/24	1/530					0.64	1.25	0.48	
_	2/53/		·			0.79	-	0.60	
	3/532					081	1.23	0.57	
	4/533					1.13	1.69	0.63	
	5/534			 					
	4535			 		1.2/	092	082	
	7/536					1.09	0.99	0.89	
_		 				1.30	1.54	0.95	
	8/537			-		0.89	0.83	0.69	
17	1/500	 		- -		1		ļ	
725	1/538	 				1.50	1.10	1.85	
	2/539	 				1.54	1.39	1.34	
	3/540					1.54	1.10	0.57	
	4541					1.34	0.83	0.78	
	5/542				T	093	1.19	058	
	6/543					134	1.63	0.70	
						1		1.	
426	1/544					136	1.08	0.54	
	2/545			 		1.20			
	3/546	 		 	f			0.77	
	4/547	F-104	05/0	28	1.5	0.68	076		
	11.27/	7704	V3/		1.3	1.00	0.90	(131	· · · · · · · · · · · · · · · · · · ·
		 		-				<u> </u>	
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			WEEKLY SUM	Oklahom			TERPRESS	UKES	13 of
964	Flight Number	Aircraft	Course	Alt. (1000')	Mach No.	TH #1	TH #3	TH #4	Remarks
4/27		F-104	0510	28	1.5	1.24	0.97	1.55	
	2/549					1.24	1.57	0.75	
	3/550		ļ			142	1.46	0.79	
	4/551					0.55	1.25	1.44	
	5/552					1.08	0.64	0.64	
		 -		+	 -			Ţ	
	6/553	 				1.80	1.10	0.75	
	7/554	 		 		1.48	1.06	0.53	
	8/555	 	0510			0.97	0.7/	0.94	
		 					<u> </u>		
128	1/556		310°			1.29	1.23	1.56	
	3/557					1.37	1.61	1.67	
	3/558		I I			0.76	2,79	1.25	·
	4/559		310			181	1.64	1.33	
	5/560		130°		 				
	6/561	 	- 125	1	 	0.72	080	1.36	
		 				1.29	1.61	1.27	
	7/562					1.01	2.34	1.50	
	8/563	 	130°	28	1.5	6.72	2.12	1.28	
7	112.11						<u> </u>	ļ	
127	1564		170°	35	2.0	1.21	1.31	0.97	
	3/565			41		1.07	0.91	0.98	
	3/566		1	4/		0.77	1.04	1.15	
	4/567		1700	4/	2.0	0.64	1.17	1.17	
	5/568		350°	28	1.5				
		 			"> -	2.00	1.24	2.03	
	6/569	 	350°	28		1.55	1.70	1.29	
,						ļ <u> </u>	<u> </u>	ļ	
30	1/570		0510			1.04	1.52	0.71	
	2/57/					0.68	1.18	0.68	
	3/572		!			0.70	1.30	1.57	
	4/513					0.83	1.34	0.85	
	5/574					1.60	1.36		
	6/575			1-1-1			γ—————	1.14	
						0.73	1.21	148	
	7/576			1		0.80	1.05	1.57	
	8/577			28		2.72	1.07	1.43	
	1/578			24		1.41	1.42	0.88	
	2/519			24		0.97	1.05	0.97	
	3/580			24		1.16	1.22	0.84	
	4/581			28	1.5	1.00	1.56	105	
	5/582			23	1.3				
	6/583	 		1 22	-/-7	0.74	0.62	0.30	
		 				0.67	0.76	0.30	
	7/584	 				1.34	1.09	2.47	
	8/585					1.39	1.56	0.58	
12	1/586				1.3		1.22	131	No Record
	2/587				1.4		1.33	1.05	1
	3/588			1-1-1	1.3		2,48	1.26	
	4/589			+-+	1.4				
		 - -		+		161	1.66	1.42	
	5/590	 		+	1.3	1.21	1.33	0.88	
	6/591	 		1	1.3	107	166	1.69	
	7/592			1_1_	1.4	1.07	1.54	1.54	
	8/593			23	1.4	1.05	1.75	1.10	
	1/594			24	1.3	1.49	0.81	0.19	
	2/595			24	1.4	163	1.19	1.01	1
	3/596	 		27	1.3	1		0.69	
		 		1-4-	113	0.93	1.01		ļ
	4/597	 		1-		0.96	0.69	0.42	
	5/598	 				1.63	0.48	0.74	
	6/599				•	1.26	*	*	*NO BOOM
	7/600	F-104	051°	27	1.3	0.93	1.83	2.56	

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STRU	CTURAL A	RESPONS	E TO SONI	C BOOMS				· · · · · · · · · · · · · · · · · · ·	APPENDIX CI
			WEEKLY SU	MMARY OF Oklahom	FREE GR	OUND OV	ERPRESSU	IRES	14 of 26
				Oklahom	a city	- 1504	т		
Date 1964	Flight Number	Aircraf	Course	Alt. (1000')	Mach No.	TH #1	TH #3		Remarks
5/4	1/60/	F-104		24	1.4	1.28	0.94	0.65	
14	2/602	12704	1		1.4	172	1.28	0.49	
 	3/603	 	 		1,4	0.98	1.01	0.73	
	4/604	+			1.5	163	1.14	1.07	
 	5/605	+			14	1.23	117	037	
 	1605	+			1.5	114	1.30	0.78	
	6/606				1.4	0.88	0.73	0.80	
	7/601 8/608	+			14	0.95	1.55	0.72	
	01608	 			1	T			
5/5	1609				1.4	1.94	1.01	130	
123.		+			1.5	0.65	1.38	1.04	
	3/6/1	+			Ti	1.29	1.57	1.00	
—	4/612	+				0.97	0.71	1.13	
 	5/6/3	+-+-	1 1			219	1.41	0.95	
-	6/6/4	+				0.67	0.90	0.45	
-	7/615	+		24	1.5	1.62	0.99	2.07	
	1,0,0	++-						1	
5/6	1/6/6			23	1.3	1.33	1.07	0.39	
1 - 6	2/6/7			24	1.6		1.05	0.69	
	3/6/8			23	1.3		1.53	0.41	
	4/6/9				1.3	126	1.19	1.85	
	5/620				1.3		1.72	095	
	6/621				1.5		1.87	1.19	
	7/622				1.3	1.07	1.28	1.02	
	8/623			23	1.5	1.16	0.59	1.32	
								0.7/	
5/2	1/624			2/	1.5		1.10		
	2/625				1.5	1.21	1.92	0.92	
	3/626				1.5		1.69	0.40	
	4/627				1.4	1.57	1.17	0.25	
	5/628				1.4	1.65	3.70	1.28	
	6/629			21	1.4	1.94	1.33	1.40	
					-	1000	1.92	1.40	
5/8				30	1.7				
	2/63/				1.7				
L	3/632				1.5				
	4/633				1.7		1.35	1.00	
	5/634	_			1.5		1.68		
	6/635				1.5				
	7/636	_ _+			1.				
<u> </u>	8/637			-++		0.74	10.70	1	
-	1///00				1.5	5 1.04	1.08	0.89	
5/9					1.7				
<u> </u>	2/639				1.5				
<u> </u>	3/640				1.				
-	5/642				1.5				
	6/642				1/3			1 1286	
-	7/644					7 1.19			
-	1/644								
5/	0 1/645				1.				
13/	2/646				1.	7 1.0		1 0.42	
-	3/647				1	7 0.5	1 0.3	9 0.50	
<u> </u>	4/646		04 051	· 30		5 1.3	4 0.7	4 1.26	
L	7/670	·				1	1	1	

WEEKLY SUMMARY OF FREE GROUND OVERPRESSURES Oklahoma City - 1964

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Date 1964 5///	Flight Number	Aircraft	Course	Alt. (1000')	Mach No.	m, 81			
5/11	1/110				110.	TH #1	TH #3	TH #4	Remarks
4.4		F-104	051°	30	17	1.02	1.07	0.85	
	2/650	1 1	1						
		 		 		1.//	1.23	0.87	
	3/65/	 		 		0.93	1.14	0.82	
	1/652	 				1.05	1.31	1.09	
	5/653				1.7	1.02	1.02	0.55	
	6/654		-		1.5	1.14	1.37	0.59	
	7/655				17	1.39	0.98	0.66	
						1	1	7.2	
112	11656	 			1.5	0.69	0.42	0.34	
	2/657	 	 	1-1-					
	2/65/	 			1.7	0.54	0.58	0.58	
	3/658				1.5	1.17	1.11	054	
	4/659				1,5	1.12	0.92		No Record
	5/660	L			1.5	1.20	0.81	1.00	
	5/660 6/66/				17	1.16	1.08	0.66	
	7/662				1.5	1.21	1.41	0.33	
	8/663	F-104	051°	30	1.7	1.10	1.16	0.47	
	-1802	1 (7 7	0.51		///	1110	1110	V.4/_	
//3	ALL	FLIGHTS	CANCE	LLEO					
5/11	1/114	C 1011	054	7.0	-, _	1 1			
7/4	11664	F-104	051	30	1.5	079	1.00	0.50	
	2/665			ļļ	1.7	0.97	1.11	0.85	
	3/666				1.5	0.92	0.93	0.74	
	4/667			1 j	1.7	1.80	1.63	1.28	
	5/668				1.5	0.79	0.57	054	
	6/669				1.7	1.05	0.93	1.08	
	7/670	 			1.5				
	9/0/0	 		 		1.12	0.81	0.70	
	8/67/				1.7	1.40	0.45	0.28	
5/15	1/672	 		 	1.7	1.18	0.73	0.75	
/~_	2/673	 							
		1 / 10 /		7.0	1.7	0.92	0.30	0.15	
	3/674	F-104		30	1.7	1.65	0.94	0.75	
	4/675	F-101		38	1.4	1.23	1.52	1.49	
5/16	1/676	F-104		30	1.5	0.99	1.28	0.88	
	2/677	1 1		† 	1.7	0.79	,		
	3/618	1 1		 			0.92	0.81	
				1	1.5	1.08	1.39	0.50	
	4/679	F-104		30	1.7	1.08	1.40	070	Last F-104 flight
	5/680	F-101		38	1.4	1.24	1.39	1.08	
	6/681					1.01	0.94	1.01	
	7/682					1.42	253	1.99	
	8/683					2.01	2.08	1.25	
						16.01	2.00	1.62	
117	1/684					124	2.44	1.61	
•	2/685					1.22	1.52	1.99	
	3/686	1 1 1	·	 					
		 		 		1.22	1.60	0.83	
	4/687	+		 - - 	 	1.19	2.94	1.40	
	5/688	 		1		0.99	2.49	249	
	6/489	1 1		38		0.95	1.30	1.66	
	7/690	F-101	051'	40	1.4	1.65	1.77		
		 				-		 -	
					<u> </u>			 	

WEEKLY SUMMARY OF FREE GROUND OVERPRESSURES

Date 1964	Flight Number	Aircraft	Course	Alt. (1000')	Mach No.	TH #1	TH #3	TH #4	Remarks
5/18	1/691	F-101	051	38	1.4	101	1.00	0.19	
	2/692			38		1.23	1.25	1.16	<u> </u>
	3/693			40		169	1.16	2.12	
	4/694			40		1.29	1.27	1.92	
	5/695			42		0.96	0.96	0.06	
	6/696	 		76		1.00	1.32	2.63	
	7/697	 		 		1.39	1.23		No Record
				42	 				NO KELONG
	8/698	 		142	 	1.05	2.94	1.3/	
Elia	11100	 		1/		0.00	1/10	100	
3/19	1/699	 		46		0.89	1.05	1.20	
	2/700	111				1.10	1.10	1.59	
	3/70/	<u> </u>				1.28	0.84	0.71	
	4/202						1.75	1.83	
	5/703					1.01	1.52	2.36	
	4704					0.87	1.94	0.94	
	7/705					1.42	1.21	0.81	
	8/106				1.4	294	0.79	1.86	
	1				_ <i></i> ,		12.77	1.20	
5/20	1/101				1.5	1.09	1.11	0.92	
-, 20	2/708				7/7	1	1.02	1.28	
	3/709	 		++-		1.07		1.54	
		+				1.11	1.67		
	4/2/0	 		1		1.16	1.18	1.22	
	5/7//	1		1		1.00	1.40	1.21	
	6/7/2	 		1		0.89	1.7/	1.56	
	1/1/3					0.96	1.12	1,20	
	8/7/4	<u> </u>				1.22	0.64	0.77	
5/2/	1/715		1			1.27	146	1.46	
	2/716					1.36	1.19	1.31	
	3/7/7					1.26	1.41	1.27	
	4/7/8					1.02	1.28	1.06	
	5/7/9	1		1		1,04	1.85	1.10	
	6/120	 		1					
	7/201	 		+		1.29	1.57	090	
	7/721	 				1.03	0.77	0.58	
<i>E</i> /	8/722	11		 -		1.18	1.32	2.22	ļ
5/22						1.22	1.25	1.49	
	2/724			16		0.93	0.98	0.89	
	3/725			44		1.79	1.11	0.79	
	4/126					1.18	1.3/	1.52	
	5/727					1.97	2.14	0.58	
	6/728					1.16	0.98	1.78	
	7/729					1.43	1.16	0.39	
	8/730			1-1-	+-	0.82	1.47	1.53	
5/23	1/73/	 		1 1 -		1002	1.22	0.90	
-1,40	2/732	 	 -	+		100			
	2/222	 		+		1.09	249	1.01	
	3/733	 		 		1.2/	1.33	1.25	
	4/734	 				1.76	1.58	2.03	·
	5/735	11-		ļ <u>,</u>	 	1.62	3.20	081	ļ
	6/736	 		44		1.35	1.60	1.81	
	7/737	1		46		2.42	1.18	0.70	
	8/738	<u> </u>		46		0.93	098	1.17	
5/24	1/139			44		1.27	1.33	0.54	
	2/140					1.13	1.33	0.93	
	3/74/					1.02	1.47	1.43	
	4/742	 		1-1-		1.11	093	2.14	
	5/743	 		+		163	1.29	1.25	

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2, 3, 4, 5, 6, 7, 8, 6, 7, 8, 6, 7, 8, 6, 7, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8,	1754 1755 1756 1751 1759 1760 1760 1762 1763 1764 1765 1765	B-58 F-101 F-101 B-58		499 44 44 499 44 44	1.5 2.0 1.5 1.5 2.0	1.13 1.03 1.44 1.59 1.16 2.14 1.18 1.38 1.05 0.75 1.24 1.24	1.05 1.72 1.77 1.52 1.32 1.16 1.36 1.06 2.32 1.21 1.44 1.19	0.56 1.14 1.13 2.58 1.63 0.79 1.12 1.32 1.14 1.11 1.71 0.96	
31 4, 5, 6, 7, 8, 5/27 1, 2, 3, 4, 5, 6, 7, 8, 7, 8, 7, 8, 7, 8, 7, 8, 7, 8, 7, 8, 7, 8, 7, 8, 7, 8, 7, 8, 7, 8, 7, 8, 7, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8,	1755 1756 1757 1759 1760 1760 1762 1763 1764 1765 1765	B-58 F-101 F-101 B-58		499 44 44 499 44 44	1.5 2.0 1.5 1.5 2.0	1.03 1.44 1.59 1.16 2.14 1.18 1.38 1.05 0.75 1.24 1.24	1.72 1.77 1.52 1.32 1.16 1.36 1.06 2.32 1.21 1.44 1.19	1.14 1.13 2.58 1.63 0.79 1.12 1.32 1.14 1.11 1.71	
\$\frac{4}{5},\\ \frac{5}{27} \land{1}\\ \frac{5}{27} \land{2}\\ \frac{5}{28} \land{2}\\ \frac{5}{28} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{29} \land{2}\\ \frac{5}{20} \land{2}\\ \frac{5}{20} \land{2}\\ \frac{5}{20} \land{2}\\ \frac{5}{20} \land{2}\\ \frac{5}{20} \land{2}\\ \frac{5}{20} \land{2}\\ \frac{5}{20} \land{2}\\ \frac{5}{20} \land{2}\\ \frac{5}{20} \land{2}\\ \frac{5}{20} \land{2}\\ \frac{5}{20} \land{2}\\ \frac{5}{20} \land{2}\\ \frac{5}{20} \land{2}\\ \frac{5}{20} \land{2}\\ \frac{5}{20} \land{2}\\ \frac{5}{20} \land{2}\\ \frac{5}{20} \land{2}\\ \frac{5}{20} \land{2}\\ \frac{5}{20} \land{2}\\ \frac{5}{20} \land{2}\\ \frac{5}{20} \land{2}\\ \frac{5}{20} \land{2}\\ \frac{5}{20} \	1756 1757 1759 1760 1760 1762 1763 1764 1765 1766	B-58 F-101 F-101 B-58		499 44 44 499 44 44	1.5	1.44 1.59 1.16 2.14 1.18 1.38 1.05 0.75 1.24 1.24	1.77 1.52 1.32 1.16 1.36 1.06 2.32 1.21 1.49 1.19	1.13 2.58 1.63 0.79 1.12 1.32 1.14 1.11	
5/27 1/1 2, 3/1 5/27 1/1 2, 3/1 4, 5/1 6, 7/1 5/29 1/1 5/29 1/1 2, 3/1 5, 6, 7	1757 1758 1759 1760 1762 1763 1764 1765 1766	F-101 F-101 8-58		44 44 499 44 44	1.5	1.59 1.16 2.14 1.18 1.38 1.05 0.75 1.24 1.24	1.52 1.32 1.16 1.36 1.06 2.32 1.21 1.49 1.19	2.58 1.63 0.79 1.12 1.32 1.14 1.11	
5/27 1/ 2/ 3/ 4 5/ 5/ 6/ 7/ 5/29 1/ 2/ 3/ 4/ 5/ 6/ 7/ 5/ 6/ 7/ 5/ 6/ 7/ 6/ 7/ 8/ 5/ 6/ 7/ 8/ 5/ 6/ 7/ 8/ 5/ 6/ 7/ 8/ 5/ 6/ 6/ 7/ 8/ 8/ 8/ 8/ 8/ 8/ 8/ 8/ 8/ 8	1758 1759 1760 1761 1762 1763 1764 1765 1766	F-101 8-58		44 419 44 44	1.5	1.16 2.14 1.18 1.38 1.05 0.75 1.24 1.24	1.32 1.16 1.36 1.06 2.32 1.21 1.49 1.19	1.63 0.79 1.12 1.32 1.14 1.11 1.71	
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5/27 1/2 3/3 4 5/4 5/28 1/2 5/29 1/2 5/29 1/2 3/4 5/29 1/2 3/4 5/29 1/2 3/4 5/29 1/2 5/29 1/2	1761 1762 1763 1764 1765 1766	8-58		49.9 44 44	2.0	1.38 1.05 0.75 1.24 1.24	1.06 2.32 1.21 1.49 1.19	1.32 1.14 1.11 1.71 0.96	
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2 3 4 5 6 7 8 5 2 3 4 5 6 7 7 5 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1762 1763 1764 1765 1766	8-58		49.9 44 44	2.0	1.05 0.75 1.24 1.24	2.32 1.21 1.49 1.19	1,14 1,11 1,71 0.96	
31 4 51 6 7 8 5/28 1/ 2 3, 4, 5, 6, 7	1763 1764 1765 1766	8-58		49.9 44 44	2.0	0.75	1.21 1.49 1.19	1.11	
\$\frac{4}{5}if \$\lambda \lambda	1764 1765 1766 1767	8-58		49.9 44 44	2.0	1.24	1.19	0.96	
5/28 1/1 5/28 1/1 2 3, 4, 5, 6, 7, 5/29 1/1 2, 3, 4, 5, 6, 7,	1765 1766 1767			44		1.24	1.19	0.96	
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2 3 4 5 6 7 5/29 1/1 2 3 4		1		46		1.26	206	0.55	
2 3 4 5 6 7 5/29 1/1 2 3 4	1/	1		177			ļ <u>.</u>		
3, 4, 5, 6, 7, 5/29 1/ 2, 3, 4, 5,	1769			44		0.79	1.22	0.87	
5/29 1/ 2 3, 4, 5,	1770	-		144	- 	1.16	0.82	0.65	
5/29 1/1 5/29 1/2 3/4 5,5	1771	F-101	<u> </u>	44	1.5	1.30	1.26	0.90	
5/29 1/ 2 3/4 5/5	1/772	8-58		49.9	2.0	1.46	1.63	0.98	
7, 5/29 1/ 2, 3, 4, 5,	7773	F-101		44	1.5	0.88	1.06	0.79	
5/29 1/ 2, 3, 4, 5,	1774	+				1.05	0.89	1.74	·
2, 3, 4, 5,	1775		<u> </u>			1.14	1.67	2.02	
2, 3, 4, 5,	71	1	L		 	1 /	 		·
3, 4, 5,	776	 	ļ			0.47	0.50	0.26	
5,	/777_	 				0.63	0.56	0.42	
5,	7778	 	 		 	0.49	0.50	0.56	
	1779	 	 	44	 	0.33	0.80	0.19	
L	1180	++	 	44	├─ ├─	1.79	1.53	0.65	
5/30 1/	1781	+-+-	 	42	 	111	7 -1	1///	
120 1	181	1	 		 	1.16	2.54	1.61	
2	182	+		42	 	1.04	1.13	1.50	
	183	+	 	42	 	0.86	1.33	047	······································
	1184	1	 	44	 	1.57	1.10	066	
2	1100	+	 	- 	 	1.2/	1.02	0.33	
5/3/ 1	1/186	+			 -	1.34	155	1.13	
	2/187	1	 	+	 	1.09	1.20	1.63	
	1188	+	 		1	1.43	1.81	1.39	
		+	 	+-+	 	1.09	2.24	1.16	
	1/700	+	 	 	i	1.53		2.09	
	1/789 5/790	 	 	+	 		1.24		
	1790		051°	14	1.5	1.16	1.72	0.61	
	1790	TIM	021	144	1,3	146	1.37	0.75	
 -	1790	F-101	1	1	<u> </u>	1		1 1	

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WEEKLY SUMMARY OF FREE GROUND OVERPRESSURES
Oklahoma City - 1964

18 of 26

				Oklahom.	a City	- 1964			18 of 26
Date 1964	Flight Number	Aircraft	Course	Alt. (1000')	Mach No.	TH #1		TH #4	Remarks
6/1	1/793	F-101	0510	44	1.5	1.14	1.62	1.68	
	2/794					1.06	656	129	
	3/795					1.39	1.32	1.80	
	4/796					1.15	1.40	1.62	
	5/797					1.28	1.16	1.30	
						1.81	1.58	0.96	
	6/798	 				1.57	1:53	097/244	TWO BOOMS - 0.66
	7/799					1.44	1.69	1.02	Sec. Between
	8/800			+-+-		144	1,2,	1,00	1st & 2nd
610	1/44/			-		0.83	1.32	0.85	
6/2				44				0.68	
	2/802	 				1.16	096		
	3/803			42		1.09	1.18	1.01	
	4/804					1.66	1.27	1.13	
L	5/805	<u> </u>			ļļ	1.25	1.58	0.97	
	6/806	1				1.21	1.12	1.27	
				_		-			
4/3	1807				_	1.75	1.75	1.7/	
	2/808					1.82	1.62	1.16	
	3/809				<u> </u>	1.91	1.18	0.89	
	4/810					1.40		2.13	
	5/811					1.14	1.40	1.09	
	6/8/2	1				1.38	416	0.93	
	1/8/3			1		1.21	1,54		
<u> </u>	8/8/4		 	42		1.68	1.60	1.25	
	0/0/T	 			 	11.00	1,4	1/	
6/4	1/815	 		40	 -	0.81	1.61	0.83	
74		 		40	 	1.61	1.35	1.52	
<u></u>	2/8/6	 	 		-				
<u></u>	3/8/7	 	 - -		 	0.92			
<u> </u>	4/8/8		ļ	40		1.36		0.62	
ļ	5/8/9		ļ	4.2	ļ	1.24		1.46	
	6/820		ļ	42	 	1.52	1.48		
	7/82/		l	44].]	0.51	0.91	1.02	
	8/822		L	44	<u> </u>	1.08	1.39	0.93	
6/5	1/823			36		1.74	1.68	1,42	
<u> </u>	2/824			36	1.5	1.31	1.29	1.15	
	3/825			34	1.6	1.24	1.61	1.24	
	4/826	-1			1.6	I	1.20	0.77	No Record
\vdash	5/827				15	1.79		1.37	
-	6/828		 	34	1.5	1.75	1.83	1.00	
6/6				30	1.2	0.98	1.56	1.23	
1-/6	2/830		 	30	1.2	1.10	1.93		
			 	28	1.5		3.12	1.43	
}	3/83/				1-7		1.62	1.93	
ļ	4/832		 	28	- <u></u> -	2.14	2.19	1.54	
<u> </u>	5/833		 	34		1.96_			
<u> </u>	6/834			34	1.5	1.42	2,26	2.13	
L	7/835			30	1.3	1.46	1.89		
	8/836		 	30	1.3	1.74	2.46		
91	1/837		<u> </u>	34	1.5		1.22	136	
	2/838		1		LL.	1.43	1.48	1.44	
	3/839				1	1.45	. 1		
	4/840			34		2.67	2.53		
	5/64/			36		1.56		2.48	
1	6/842		1			1.38	2.20		
-	7/843	-	1			138	1.70		
-	8/844	F-101	051°	36	1.5				
l	1044			120					

Date 1964 6/8	Flight	1							
4/8	Number	Aircraft	Course	Alt. (1000')	Mach No.	TH #1	TH #3	TH #4	Remarks
	1/845	F-101	051°	34	1.5	1.64	0.83	*	*No Boom
	2/846					1.60	1.28	1.23	
	3/847					7.74	2.16	1.19	
	4/848					1.46	1.99	2.56	
	5/849					1.21	2.84	1.01	
	6/850	† 		34		1.00	1.50	1.67	
	7/851			36		0.94	1.67	2.40	
									1/2 1/2
	81852	 		36		<u> </u>	1.43	1.35	No Record
	772			1 20			 	1000	
6/9	1/853	 		33		1.27	141	090	
	2/854					1.45	1.62	0.74	
	3/855			_		1.10	0.95	1.16	<u> </u>
	4/856			•		0.83	1.92	1.7/	
	5/857			33		1.89	2.79	1.12	
	6/858			35		1.19	1.20	0.64	1
	7/859	 		35		0.99	2.28	1.07	
	8/860	 		35	 	1.27	150	1.45	
	9860	 		35		1.41	1.50	11.43	
	//2.1	 				1.00	 	 	
	1/861	 		33		1.83	1.72	1.03	· · · · · · · · · · · · · · · · · · ·
	2/862			32		1.33	1.27	1.01	
	3/863			33		1.72	1.70	1.99	
	4/864					1.76	1.33	0.98	<u> </u>
	5/865	1 1				1.20	2.37	2.02	
	6/866			•		0.99	1.46	3.14	
	7/867			33		1.36	2.26	1.10	
	8/868	1 1 1		35		1.27	1.94	0.93	
	0/068	 		 		11.61	1.94	10.93	
6/11	1/869	1 1		33	 - - - 	200	210	1.15	
6/1/		 		1 22		2.22	3.18	1.45	
	2/810	1				1.38	2.03	1.35	<u> </u>
	3/67/	111					1.38	0.62	
	4/872					1.04	1.38	1.16	
	5/873			1 🛊		1.04	1.38	0.66	
	6/874	F-101	1	33	1.5	1.36	1.93	1.91	
6/12	1/815	F-106		37	2.0	0.98	0.89	0.89	
-7.7-	2/876	F-106		34	1.8	1.07	1.23	0.86	
	3/877	F-101		33	1.5	1.51	2.10	1.16	
		F-101			11.5				
	4/878			33	1.5	1.56	1.58	2.33	
	5/879	F-106		3/	1.8	1 7	1./7	0.45	
	6/880	F-101		33	1.5	1.//	1.38	1.04	
	1/881	F-101		33	1.5	2.18	1.49	2.50	
6/13	1/882	F-101		33	1.5	1.57	1.39	1.10	
	2/883	F-106		30	17	T	1.71	2.36	
	3/884	F-101		33	1.5	1.87	1.23	1.19	
 -	4/885	1 1		17	 	1.84	1.65	1.52	
l		 -		++-	 		Ţ		
 	5/886	 			 	1.45	1.69	1.15	
11:	6/887	 				1.82	1.34	1.17	
6/14	11000		ļ		├ ──├─	1.24	1.76	1.14	
	2/889				$\sqcup \bot$	1.31	1.50	090	
	3/890					1.22	1.63	2.67	
	4/891					1.51	2.16	2.02	
	5/892	1		11		1.16	1.76	1.14	
	6/893	++			1-1-	1.92	1.13	3.05	
 	7/894	+				0.92	216	1.60	
L	8/895	F-101	0510	33	1.5	1.22	2.24	2.15	

ate	Flight		2	Alt. (1000')	Mach No.	TH #1	TH #3	TH #4	Remarks
964	Number	Aircraft			1.5	1.43	4.38	2.04	
15		F-101	0510	33	1.2	1.34	1.53	1.51	
	2/897				 		1.81	1.35	
	3/898		 			1.32	2.38	1.20	
	4/899		<u> </u>	33_		1.32	1.64	1.44	
	5/900	<u> </u>	<u> </u>	37_		1.23		0.81	
	6/901		1		-	2.95	1.98		
	7/902				<u> </u>	0.91	1.3/	2.06	
	8/903				 	1.17	1.29	1.92	
	-	1				+	1001	1,10	
6/16	1/904					1.49	2.21	1.69	
	2/905		li	37		1.46	1,49	2.22	
	3/906			33	\bot	1.71	1.53	1.41	
	4/907				<u> </u>	1.30	1.13	1.21	
	51908					1.47	1.57	2.59	
	6/909				\perp	1.42	1.55	1.58	
	1-	1-1-	1						
6/17	1910	 	1			1.18	2.04		
-1//	3911	 	1			1.69	1.20	0.95	
	3/9/2	+	-			1.07	1.72	1.40	
	4/9/3		- 			1.30	1,44	0.69	
·····			1			1.30	2.67	0.89	
	5/9/4		+	33	1	0.93	0.92	1.45	
	6/915		-	35		1.81	2.80	1.23	
	7/9/6		 	35	++	1.09	1.81		
77.	8/9/7	- - -		33	+ - +	1.20	1.13	2.56	
4/18				- 1 - 7		1.39	1.17	1.28	
	2/9/9				+	1.25	1.15	1.04	
	3/920				+-+	1.15	1.69	2.68	
	4/92/			33	+++	1.01	1.65		
	5/922			35	+	1.18	3.38		
	6/923					1.65	1.82	1.11	
	7/924								
	8/925					1.18	0.93		
6/19	1/926			35	-	1.29	1.26		
	2/927	ii		37		1.35			
	3/928					1.58			
	4/929				_	0.97	1.86		
	5/930				\dashv	1.18	1.60		
_	6/931					1.3/	1.58		
	7/932					1.72	2.49		
	8/933			37		1.36	1.64		
6/2				33		1.46			
1-12	2/935			33		1.27	1.90		
 	3/936			35	-	1.56	1.93		
1	4/937					1.73	1.26		
-	5/938					2.06			
-						1.51	2.01		
	6/939					2.19			
<u></u>	7/940			35	-	1.21			
	8/94/			33		1.76			
6/2				33		2.2			
<u></u>	2/943					1.9			
L_	3/944		:-	35		1.71			
L	4/945			35		1.4:			
	5/946			37					
	6/94			37		1.20			
	7/94			35		■ 1/3′	7 1.5.().	/ 11·41	1

			WEEKLY SUN	MARY OF Oklahom			erpress	URES	21 of 26
Date 1964	Flight Number	Aircraft	Course	Alt. (1000')	Mach No.	TH #1	TH #3	TH #4	Remarks
6/22	1/950	F-101	0510	33	1.5	1.64	1.56	1.04	· ·
	2/95/	F-101		33	1.5	1.40	1.32	0.76	
	3/952	F-101		35	1.5	1.64	2.27	1.02	
	4/953	8.58		43	1.85	1.68	3.79	2.05	
	5/954	F-101		39	15	0.89	1.19	1.86	
	6/955	1 1		1		1.35	2.12	1.13	
	7/956					1.13	1.73	1.22	
	8/957			39		0.67	1.17	1.33	
6/22	1/958			33		1.94	1.08	1.38	
1/23	2/959	1 1		35		1.26	1.41	1.60	
	3/960	 		35		2.12	2.16	0.92	
	4/961	 				1.53	2.06	1.87	
	5/962			37	 	2.06	1.45	1.93	
	7/462			13/		2.00	1,43	1.93	
6/24	1/963			33		1.68	1.59	1.87	
	2/964			33	ll	1.51	1.66	1.39	
	3/965			35		1.58	1.89	2.88	
	4/966			35		1.72	1.33	2.37	
	5/967			37		1.63	1.78	1.42	
	6/9.68					1.35	1.85	1.27	
	7/969					2.00	1.89	1.94	
	8/970			37	<u> </u>	3.08	2.09	<u> </u>	No Record
4/25	1/911			33		1.89	1.57	1.46	
/	2/912			33		2.08	1.76	1.60	
l	3/913	†		35		1.53	1.23	2.66	
	4/914	1		35		1.79	1.61	1.49	
i	5/975	1		35		1.43	1.53	1.38	
	6/976			37	 	2.00	1.30	1.09	
	7/977			37		2.96	2.36	2.08	
6/01	1/978			22		1.88	1.66	1.54	
726	2/979	1		33 33					
	3/980	+		35	1	2.07	1.74	1.54	
	1/900			35	}	1.69	2.09	1.60	
	4/981					2.04	1.46	1.29	
	5/982			35		2.04	2.34	3.01	
	7/984	 		37	 	1.17	2.90	2.94	
						1"/	2.75	6,77	
6/27	1/985			33		1.95	1.82	0.97	
	2/986			33	 	1.65	1.51	0.98	
<u> </u>	3/987			35	 	1.93	1.41	1.30	
<u> </u>	4/988	ļ				1.60	1.77	1.43	
ļ	5/989	1	 	1 1	 	1.27	2.23	1.68	ļ
<u> </u>	6/990	 		35	1-1-	1.77	1.80	1.35	
 	7/991	 	 	37	 	1.46	2.55	1.61	
	8/992	+		37		1.79	0.63	1.20	
428	1/993			33		1.86	1.30	1.00	
	2/994			33		1.78	1.67	1.62	
	3/995	I T		35		1.69	1.51	1.85	
	41996			35		1.50	1.90	1.32	
	5/997			35		1.48	171	1.18	
	6/998		•	37		1.18	2.06	1.16	
	7/999	E-101	051°	37	1.5	1.72	1.04	0.97	

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			WEEKLY SUN				ERPRESS	URES	22 of 26
Date 1964	Flight Number	Aircraft	Course	Alt. (1000')	Mach No.	TH #1	TH #3	TH #4	Rema rks
6/29	1/1000	F-101	0510	33	1.5	1.37	140	1,58	
	2/1001					1.53	1.81	2.60	
	3/1002					1.67	1.44	1.64	
	4/1003				1	1.69	1.85	2.07	
	5/1004			4		166	0.82	0.95	
	6/1005			33		2.20	1.81	1.60	
	7/1006			35		1.69	1.05	1.10	
6/30	11007	1 - 1 - 1		33		1.91	2.18	1.90	
,,,,,	2/1008			33		1.59	1.94	-	No Record
	3/1009	 		35	l	2.14	1.68	1.33	
	4/1010			 		1.63	2.20	1.31	
	5/1011				ll	1.89	1.22	2.18	
	6/1012			35		1.91	1.33	1.76	
		+	 	37		1.98	1.66	1.21	
	8/10/3	 	-	37	 	1.29	1.24	1.22	
7/1	8/1014					1.04	1.83	1.86	
_7/	1/1015	 		33	- -		1.76	1.71	
	2/10/6	F-101		33	1/5	1.62	2.13	0.81	
	3/1017			35	1.5	1.22			
	4/1018	B-58		49.9	2.0	1.87	2.26	0.82	
	5/1019	F-101		35	1.5	2.16	1.18	1.48	
	6/1020			35		0.88	0.69	0.54	
	7/1021			37		0.61	0.56	027	
	8/1022			37	 	0,45	0.22	0,15	
1/2	1/1023			33		1.40	1.83	1.80	
	2/1024			33		1.15	1.46	1.66	
	3/1025			35		1.45	1.96	1.68	
	4/1026			35		1.66	3.03	2.45	
	5/1027			35		2,50	1.70	1.95	
	4/1028			37		1.66	1.42	2.44	
	7/1029			37		1.21	2.00	1.11	
	8/1030			37		1.62	1.03	0.60	
7/3	1/103/	1-1-		33		1.45	2.22	1.04	
	2/1032			33		1.25	2.09	1.16	
 	3/1033	1		35	 	1.45	1.79	0.94	
 	4/1034	+ + -		35	 	1.23	1.42	1.34	
				37	 	1.27	1.36	2.17	
	6/1035	+ + -		- 2 /		1.27	250	1.19	
		++			 		2.19	1.77	
	7/1037			27	1	1.34	1.63	1.50	
7/4	8/1038			37		1.07	1,65	1.43	
74	1/1039	 	 	33	 	1.76			
 	2/1040		 	33	 	1.58	1.35	1.08	-
	3/104/	 	 	35		1.35	1.54	1.65	
L	4/1042	1	 	35	} }-	1.17_	1.43	1.96	
<u></u>	5/1043			37	ļļ		1.35	1.99	
ļ	6/1044		 - -		ļl	1.73	2.03	1.46	
L	7/1045	1	<u> </u>			1.33	1.4/	0.49	
	8/1046	-	ļļ	37	ļ	1.76	1.77	0.84	
7/5	1/1047			33		1.86	- 1	0.35	
	2/1048		1	33	1	1.83	1.81	0.98	
<u></u>	3/1049	<u> </u>		35		1,5/_	1.73	1.60	
<u></u>	4/1050			35		1.37	1.36	1.57	
	5/105/			37	Ll	0.96	0.95	1.16	
	6/1052					2.11	1.36	1.96	
 	7/1053		Ţ.		1	1.42	1.97	1.58	
\vdash	8/1054	F-101	0510	37	15	1.33	1.60	1.18	

			WEEKLY SUM		FREE GR		ERPRESS	URES	23 of 26
Date 1964	Flight Number	Aircraft		Alt. (1000')		TH #1	TH #3	TH #4	Remarks
1/6	1/1055	F-101	0510	33	1.5	1.65	1.50	0.63	
	2/1056	F-101		33	1.5	1.85	1.44	0.31	
i —	3/1057	F-101		35	15	107	1.09	2.00	
	4/1058	8-58		499	2.0	1.92	1.57	1.29	
	5/1059	F-101		35	1.5	1.39	1.22	1.54	
	6/1060	1	 	35	111	0.90	0.94	0.95	
		 	 	37	 - - - - - - - - -	1.16	2.46	0.95	
 	7/1061	 	 	37	 			1.49	
17/2	8/1062		 		┼┼	1.62	1.98		<u> </u>
7/2	1/1063	 '	 	33		1.62	1.3/	1.00	
<u> </u>	2/1064	 	 	33	↓	1.72	2.46	0.95	
	3/1065	<u> </u>		33	\bot	1.67	1.09	0.99	
	4/1066			35		2.04	1.09	0.92	
	5/1067			37		1.73	1.33	1.30	
	6/1068			35	1-1-	2.19	1.87	1.68	
-	7/1069			37	 	1.15	1.33	1.30	
-	8/1010	 	 	37	++-	1.13	1.46	1,38	1
7/8		 	 	33	+	2.62			
10	1/107/	 	 	127	 		1.11	0.99	W 1/- 72
	2/1072	 	 		 	*	*	*	*No Boom
	3/1073	 	ļ		├	1.43	1.41	1.09	<u> </u>
<u></u>	4/1074	 	<u> </u>	33	 _	1.55	2.16	2.11	
L	5/1075	<u> </u>	<u> </u>	35		1.83	2.52	0.99	
Γ	6/1016			35	T_{\perp}	1.60	2.07	1.04	
	7/1077			37		1.98	1.35	1.57	
	8/1078		 	37	1-1-	1.48	0.90	2.14	
7/9		+	 	33	+-+-	1.56	1.76	1.37	
77		+	 		+				
 	2/1080		 	33		1.75	200	1.41	
<u> </u>	3/1081	 	 	35	 	1.42	2.24	0.73	
	4/1082		 		1	1.54	1.68	3.00	
L	5/1083			<u> </u>	$\perp \perp$	1.89	1.14	1.05	
	6/1084			35]	1.70	1.89	1.36	
Γ	7/1085			37	TLL	0.97	1.12	0.85	
	8/1086			37	1	0.90	2.67	2.75	
7/10	1/1087	 - - - - -	1	33	+	1.91	2.06	1.03	
1118	2/1088	1	+	33	+-1	2.00	1.68	0.63	
 		F-101	1	35	1.5				
 	3/1089		 			2.24	1.48	0.85	<u> </u>
<u> </u>	4/1090	B-58	 	199	20	1.96	1,27	1.29	
	5/109/	F-101		35	1.5	1.67	1.51	1.95	
<u> </u>	6/1092			35	-	1.34	1.05	3.0/	
	7/1093			37	$\perp \perp$	1.43	V.46	0.89	
l	8/1094	T		37		1.29	1.03	092	
7/11				33	\top	1.58	0.70	0.49	
1	2/1096		1	33	+	2.02	1.81	1.42	
	3/1097	+	+	35	+	1.86	0.85		
 		+	+	+	+				<u> </u>
 	4/1098				+-+	0.93	0.81	01/7	
ļ	5/1099		 	1	+-+-	1.41	1.68	1.70	
	6/1100	1-1-	 	35		1.36	1.31	1.16	<u> </u>
<u> </u>	7/1101	1	<u> </u>	37		1.81	2.03	1.65	
[8/1102	T		37	TL	1.41	1.98	1.10	
7/12	1/1103	1 _	1	33	\top	1.81	1.70	2.17	
1	2/1104	+	1	33	1	1.55	1.68		
	3/1105		1-1-	37	+	1.34	1.37		+
—		++		-1-3/-	+-				
ļ	4/1106			-		1.60			
	5/1107					1.64	1.00		
<u> </u>	6/1108	1				1.06	0.74		
	7/1109		1		1	1.27			
	8/1110	F-101	0510	37	1.5	1.15	T	1.00	No Record

-			WEEKLY SU	MMARY OF Oklahom			ERPRESS	URES	24 of 26
Date 1964	Flight Number	Aircraft	Course	Alt. (1000')	Mach No.	TH #1	TH #3	TH #4	Remarks
7/13	1/1111	F-101	051°	33	1.5	1.75	1.68	1.92	
	2/1/12			33		2.12	1.87	1.69	
	3/1/13			35		1.75	1.55	0.81	
	4/1/14					2.02	1.87	1.87	
	5/1115					1.52	1.96	1.00	
	6/11/6			1-1-		1.10	2.09	1.67	
	7/11/7	 				2.49	1.63	1.58	
	8/11/8	 		35		2.07	0.89	1.40	
7/11	1/1119			33		1.53	1.73	1,49	
-77-	2/1/20			33		2.06	1.73	1.11	
	3/1/2/			35		1.60	1.77	1.09	
	4/1122			+		151	1.36	1.62	
	5/1123			 		1.32	1.80	3.22	
	6/1124	 		35		2.80	1.47	1.97	
	7/1125	 		37	 	1.19	1.32	1.14	
L	8/1/26	 -		37		2.38	1.54	0.84	
7/15	1/1127	 		33			1.34	1.47	
1/2	2/1/28	 		33	 	1.82	1.47		
	3/11/20	├──		35	 	1.67		1.69	
-	3/1/29	 		1 22		2.12	1.88	3.3/	
	4/1130	 				1.14	1.77	1.39	
	5/1/3/	 				2.72	1.99	1.65	
	6/1/32	 		35		2.62	2.23	1.08	
	7/1/33			37		3.34	2.10	2.19	
17/	8/1134	 		37		1.57	1.23	1.15	
7/16	1/1135			33		1.65	2.08	1.01	
	2/1/36			33		1.77	2.08	1.80	
	3/1/37			35		1.77	1.02	1.22	
	4/1/38					1.93	2.06	0.99	
	5/1/39					1.58	2.19	0.80	
	6/1140			35		2.42	1.43	0.81	
	7/1141	l		37		2.00	2.12	1.56	
	8/1142	1		37		1.82	292	1.43	
7/17	1/1143			33		1.49	1.81	2.14	
	2/1144			33		1.92	2.11	2.36	
	3/1145			35		1.33	1.48	2.02	
	4/1/46					1.78	1.53	0.98	
	5/1147					1.28	1.57	1.75	
	6/1/48			35		2.42	0.95	2.04	
	7/1149			37		1.85	2.15	1.25	
	8/1150			37		1.03	1.55	1.05	
7/18	1/1151	F-101		33	1.5	1.60	1.90	1.17	
	2/1152	F-106		31	2.0	1.53	1.08	1.11	
	3/1153	F-101		35	1.5	1.38	2.90	1.56	
· 	4/1154	F106		33	2.0	1.51	1.23	0.90	
	5/1155	F-101		35	1.5	2.46	1.60	1.10	——————————————————————————————————————
	6/1156	F-106		29	2.0	1.56	2.06	1.24	<u> </u>
	7/1157	F-101		37	1.5	1.40	1.56	1.56	
	8/1158	F-106		29	2.0	1,40	1.26	0.96	
7/19	1/1159	F-101		33	1.5	1.89	126	1.13	
711	2/1160	F-106		29					
	3/1/6/	F-101		35	1.7	1.33	1.02	0.81	
	4/1162	F-106			1.5	2.07	1.84	1.47	
				29		1.38	0.84	0.80	
	5/1163	F-101		35	1.5	3./5	1.28	0.81	
	6/1/64	 		35		0.58	0.63	0.69	
	7/1/65	- -,-, ,-,-	1	37		2.18	1.51	1.06	
	8/1166	F-101	051°	37	1.5	1.10	128	1.61	1

WEEKLY SUMMARY OF FREE GROUND OVERPRESSURES Oklahoma City - 1964

25 06 26

Date 1964	Flight Number	Aircraft	Course	Alt. (1000')	Mach No.	TH #1	TH #3	TH #4	Remarks
7/20	1/1167	F-101	05/*	33	1.5	1.64	1.18	0.66	
	2/1168			33		224	1.53	1.12	
	3/1169			35		167	174	2.70	
	4/1170			35		1.18	1.59	0.69	
	5/1171			39		1.62	1.83	1.17	
	6/1172			39		1.69	1.68	2.06	
	7/1173			41	1.5	1.13	2.00	0.98	
	8/1174			41	1.6	2.46	1.96	1.35	
7/2/	1/1175			39	1.5	1.43	1.36	1.55	
,_,	2/1/76			39	<u> </u>	1.63	2.25	1.23	
	3/1/77			41				0.77	
		 		+ 47	 -	1.61	1.30		
	4/1/78				 	1.24	1.41	1.25	
	5/1179	 		 	 	1.22	0.82	1.12	
	6/1180	 		41		1.40	1.56	1.58	
	7/1181			43	 	1.31	0.54	0.35	
<i>~</i>	8/1/82	ļ		43		1.52	1.15	0.69	
1/22				40		1.51	1.27	0.56	
	2/1/84			40		1.12	1.51	1.06	
	3/1185			4/		1.44	1.87	1.83	
	4/1186						1.33	1.08	No Record
	5/1187					1.42	1.25	1.47	
	6/1188			41		1.12	1.12	-	
	7/1189			43		1.07	1.18	1.96	
	8/1190			43		0.89	2.24	0.45	
7/22	1/1191	1 1		4/					
722	2/1/9/	1 - 1 - 1			-	1.06	1.19	1.33	
	2//192	 		41		0.82	1.04	0.95	
	3/1193			43	l	0.89	1.08	1.62	
	4/1/94					1.07	1.02	0.88	
	5/1195			1		1.32	*	*	* NO BOCM
	6/1196			43		0.79	1.4/	2.49	
	7/1197			45		0.50	0.91	*	
	8/1198		1.	45		0.97	1.45	1.24	
7/24.	1/1199			41		0.85	2.22	0.94	
	2/1200			41		0.77	1.45	1.28	
	3/1201			43		0.51	0.64	0.69	
	4/1202	1		11		0.72	1.39	1.37	
	5/1203	 		+ ; -	 	0.64	1.37	1.40	
	6/1204	1 1		43		0.81	0.88	1.00	
	7/1205	1		45		0.38		0.37	
	9/1205	 			 		3.29		
7/25	8/1206	 		45	 		T	0.78	
125	- 	1		39		610	1.28	1.02	
	2/1208			41	1	1.03	1.43	1.30	
	3/1209			43		0.97	1.34	1.02	
	4/1210					0.82	1.30	1.13	
	5/1211			<u></u>		1.35	1.06	1.64	
	6/12/2			43		0.80	0.87	1.09	
	7/12/3			45		1.31	0.97	0.40	
	8/12/4			45		063	1.82	1.00	
7/26	1/12/5			39	T -	0.97	1.28	124	
	2/12/6	T		41		0.80	1.19	1.24	l .
	3/12/7			43	 	0.88	1.32	1.34	
···	4/12/8	1		43	 -		1.45	1.38	
		+		1 75	 -	1.03			
	5/12/9	1	 	35	┼─├─	1.4/	1.08	0.96	
	7/1221	- 		35 45	 	0.59	128	0.55	

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			TO SONIC				ERPRESS	URES	26 of
ate 964	Flight Number	Aircraft	Course	Alt. (1000')	Mach No.	TH #1	TH #3	TH #4	Remarks
127	1/1223	F-101	0510	39	1.5	0.84	0.88	0.56	
	2/1224		1	39		0.98	1.16	1.09	<u> </u>
	3/1725			11		0.91	1.14	093	
	4/1226			1 / 1		1.04	1.29	250	
						////	×	×	NO BOOM
	5/1227		 			0.64	1.35	1.35	
	6/1228	 	 		 	1.04	1.18	1.44	
	1/1229	ļ		!	 				
	8/1230	 _		4/_	 	1.20	1,06	1.34	
	<u> </u>						 	1	ļ
128	11/23/	<u> </u>		39		0.93	1.35	145	
	2/1232	-		39		0.82	0.96	1.97	
	3/1233			4/		0.91	1.44	1.75	<u> </u>
	4/1234			111		0.86	1.66	0.97	
	5/1235	 	 	1 1		2.36	1.52	1.05	
		 	 		 	102	1.26	095	
	6/1236	 	 				1.09	1072	No Record
	7/1237	 	 		 	1.10	1.01	1.21	NO RECORD
	8/1238			4/	 	1.39	 -	1.21	
			 			-}	1	1	_
29	1/1239		11_	39			1.41	0.65	<u> </u>
	2/1240			39		1.00	1.17	0.92	
	3/124/			39		1.06	2.01	1.66	
	4/1242			41		1.00	1.30	1.31	
	5/1243	 	 	+ '1	1-1-	1.32	1.39	1.57	
			 	-+	 - -	0.79	1.17	1.73	
	6/1244	 	 	+ //					ļ
	7/1245		 	41		1.06	1.32	1.47	
			<u> </u>		- -				
130	1/1246		<u> </u>	39	1	1.45	1.41	1.15	<u> </u>
	2/1247	1		4/_		1.24	1.71	1.91	
	3/1248				1	1.45	1.36	1.40	<u> </u>
•	4/1249						1.88	1.//	
	5/1250			41		1,27	1.04	1.68	
	6/1251		1 1	43		1.62	1.43	2.21	
		 	 	43	 	1.47	1.21	1.34	
	7/1252	F-101	0510	45	1.5		1.23	1.32	
	8/1253	7-101	1031	77	1.5	0.90	1,23	1.32	-
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